April 1996 No. 60106

JVC Service Manual

THREE CCD COLOR VIDEO CAMERA
DREI CCD-FARBVIDEO KAMERA
CAMERA VIDEO COULEUR A TROIS CCD

MODELL MODELL MODÈLE **KY-F32**

VICTOR COMPANY OF JAPAN, LIMITED

JVC Service Manual



(Lens is optional.)

MODEL KY-F32

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SECTION 1 SERVICE CAUTIONS AND DISASSEMBLY

1.1 REMOVAL OF COVER

- 1. Remove four screws(1), and then remove the rear panel(A) with the rear frame.
- 2. Remove four screws 2) from the cover (B).

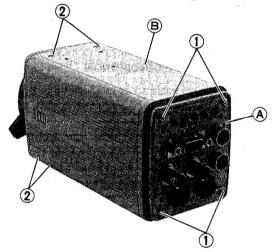


Fig. 1-1-1

1.2 REMOVAL OF CIRCUIT BOARDS

1. Remove the cover (B) referring to the section 1.1.

1.2.1 Removal of ST board

1. Remove four screws (3) while remove the ST board only. When remove the circuit board, remove a screw (4) from front of the bracket C and loosen the screws 5 in left and right sides, then the circuit board remove together with the bracket (C)in the direction of the arrow.

Make sure that the screws (5) are firmly tightened as the ST bracket(C)is closed.

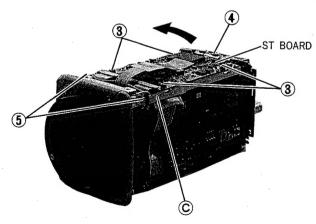


Fig. 1-2-1

1.2.2 Removal of plug-in circuit boards

1. The circuit boards named CE, PR, DT and CP are located on the MT board. Pull out these circut boards upward and remove them.

1.2.3 Removal of IF board

1. Remove four screws 6 and pull the rear plate Drearward.

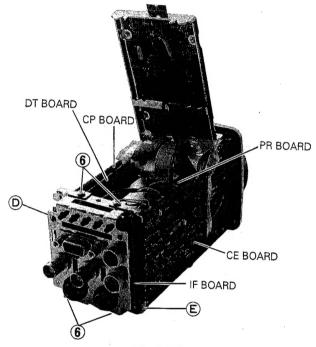
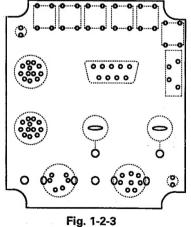


Fig. 1-2-2

2. Unsolder the connector shown in Fig.1-2-3.



1.3 REMOVAL OF FRONT PANEL

1. Remove four screws 7 from the front panel F, and then detach the front panel F with optical block assembly.

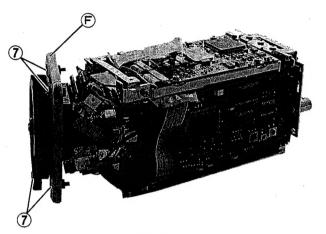


Fig. 1-3-1

1.4 REPLACEMENT OF OPTICAL BLOCK ASSEMBLY

When replacing the optical block assembly, don't remove it from the front panel but replace it together with the front panel. (Refer to Section 4.1.)

When using a new optical block assembly for replacement, remove the cap and two screws 8 first and then take it out of the optical cover to replace the optical block assembly mounted currently with it.

Note:

The cap, two screws 8 and optical cover are unnecessary for replacement, because they are exclusively used for transportation.

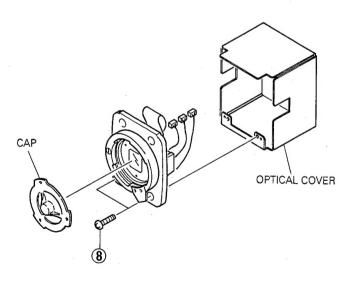


Fig. 1-4-1

1.5 EXTENSION BOARD

For extending the CP, PR boards use the extension board of 24-pin or 14-pin.

24-pin: Part No. SCV2463-024 14-pin: Part No. SCV2463-014

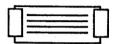


Fig. 1-5-1

1.6 CARD FIT CABLE CONNECTION

- Insert the card fit cable so as to contact the copper leaf on its edge to the connector's contuctive surface as shown in Fig. 1-6-1.
- For disconnecting the card fit cable (flat cable), pull the cable stoppers in the direction of the arrows. To secure the connection of the card fit cable, push the cable stoppers in the reverse direction of the arrows after inserting the cable.

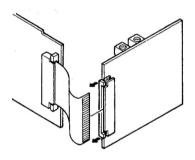


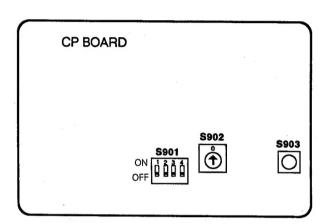
Fig. 1-6-1

1.7 FUNCTION OF CAMERA'S INTERNAL SWITCHES

Respective functions of internal switches of the camera are as follows.

1.7.1 Initial settings on shipment from factory





1.7.2 Table of switch functions

DIP SW		Function	DIP SW		Function
Setting for check and adjustment	S901 [CP]	OFF: Normal position ON: S/N mode. (CC = OFF, GAMMA = OFF, M. BLK = Max) •S/N mode is to be used for S/N measurment. 2 AUTO IRIS LEVEL NORMAL OFF: A.IRIS on rear panel is inoperable. ON: A.IRIS on rear panel is operable. 3 SYNC Must be set to OFF. If set to ON, the unit may become malfunction. 4 ADJUSTMENT MODE	Setting for adjustment items		0: SC frequency adjustment 1: Error voltage adjustment 2: R-Y carrier balance adjustment 3: B-Y carrier balance adjustment 4: R-ch input gain adjustment 5: B-ch input gain adjustment 6: R-ch V-sub adjustment 7: G-ch V-sub adjustment 8: B-ch V-sub adjustment 9: R-ch black adjustment A: B-ch black adjustment B: Master black adjustment C: R-ch flare adjustment D: B-ch flare adjustment E: GDL adjustment F: H. contour level adjustment
		For specifications refer to "SECTION 2 ELECTRICAL ADJUSTMENT".	[RGB, Y/C COMP OUT] Select	[CP]	Adjustment and setting switch To be used in adjustment mode. Adjustment is possible by pressing this once. If it is pressed once more, the DATA which was adjusted with VR901 is stored in IC.(For use, refer to section 2.) Refer to instructions page 5.

1.8 SYSTEM RESET

While pressing the RESET button, turn on POWER switch to reset the system.

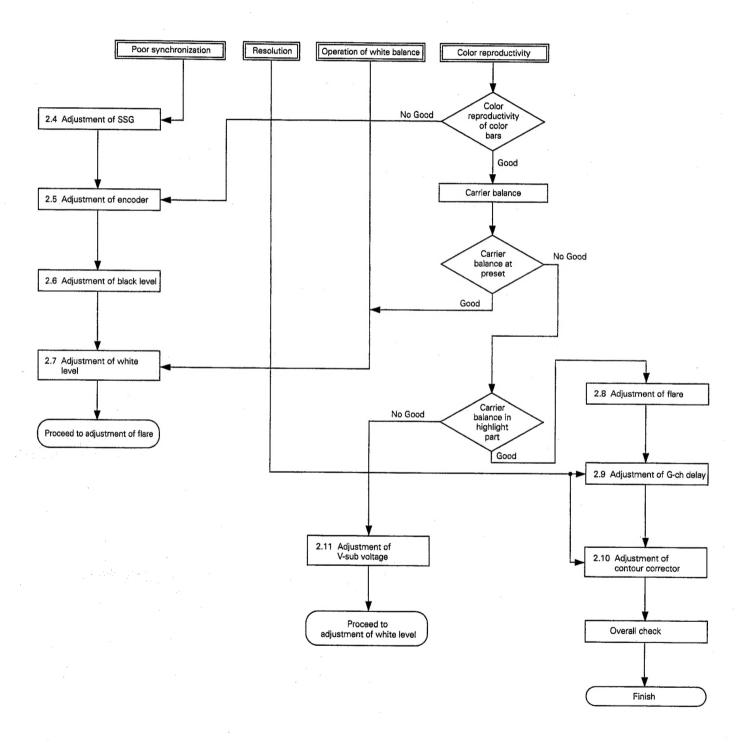
This system reset operation initializes all data on the MENU items that had been set by either of the main unit and remote control

unit to the original setting and reference values. (Refer to page 7 of the Instructions.)

Moreover, this system reset clears the TITLE data set by the remote control unit.

SECTION 2 ELECTRICAL ADJUSTMENTS

2.1 FLOWCHART OF ELECTRICAL ADJUSTMENTS



2.2 REQUIRED EQUIPMENT FOR ELECTRICAL ADJUSTMENT

2.2.1 General instruments necessary for adjustment

- Oscilloscope (capable of measuring on 100 MHz or higher band, moreover, must be calibrated.)
- 2. Vectorscope (must be calibrated.)
- 3. Frequency counter (readable eight-digit number and stable with tolerance of 0.1 ppm or 1 \times 10⁻⁷ at 0° to 40°, moreover, must be calibrated)
- 4. Digital voltmeter (having 10 $M\Omega$ or more input impedance, moreover, must be calibrated)
- 5. Color monitor

2.2.2 Other necessities

- Power supply : 12V DC (Optional AC power adapter AA-P700)
- Camera lens (YH13 x 7.5K12 or S14 x 7.5B12 preferable)
 Lighting apparatus: By using a halogen lamps of 3200K, 2000lx illuminative brightness make it a chart please hit uniformly.

If the lighting appratus is need to adjust illuminance on the test pattern, the following method is very simple to reduce video shading (to turn down contrast).

Connect an oscilloscope to the VIDEO OUTPUT terminal and adjust lighting so that video signal is observed flat at the V-rate.



2.2.3 Special implements for electrical adjustments

NOTE

- 1) For power supply to this camera, use the power cable (Part No. CE41155-002: 8-pin plug) supplied as a service part to do it from a 12V DC power source, or use the provided DC cable or the DC cable VC462-2 (handled by parts) to supply from the AC power adapter AA-P700 (option).
- 2) Limited length of cable for power supply is shown below (in case of using AA-P700) .

Diameter of conductor	Resistance	Limited cable length
0.5 mm	37 Ω/km	8.7 m
0.75 mm	25 Ω/km	13.0 m

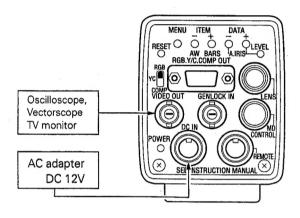
Gray scale chart	2	In-megacycle chart
<part gs2l="" no.=""></part>		<part no.="" resc-010=""></part>
		IN MEGA CYCLE

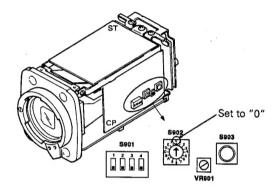
2.3 ADJUSTMENT MODE

Some of the following adjustment items need to set the camera to the "Adjustment mode".

The "Adjustment mode" enables the service personnel to adjust the specified items (except chroma level adjustment and some items of white level adjustment) with only one VR (VR901 on the CP board) by utilizing the rotary encoder (S902 on the CP board). Adjustment in the "Adjustment mode" should be performed as mentioned below.

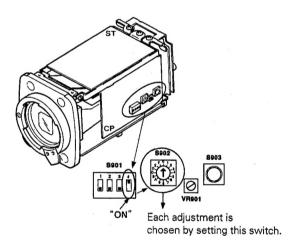
- 1. Make sure that a TV monitor is connected to the VIDEO OUT terminal of this camera, and supply the rated power (12.0 \pm 0.5 V) to the DC IN terminal.
- Set S902 (rotary encoder switch) on the CP board to the position of "0" with screwdriver.

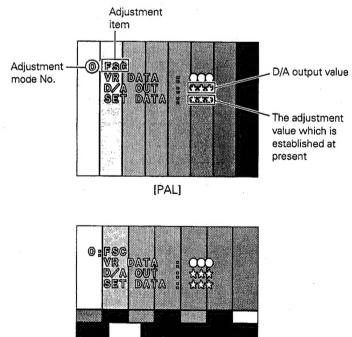




3. Set S901-4 (DIP switch) on the CP board to "ON", and an adjustment picture will appear on the monitor screen. (See the figure below.)

After the adjustment picture has appeared on the monitor screen, set S902 to the number of the adjustment mode. (When S902 is set to the indicated number, the display turns to the next screen.)

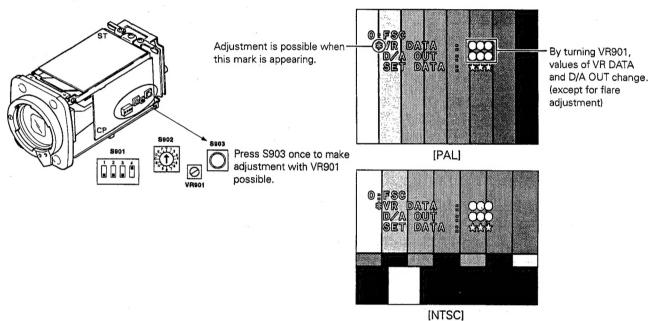




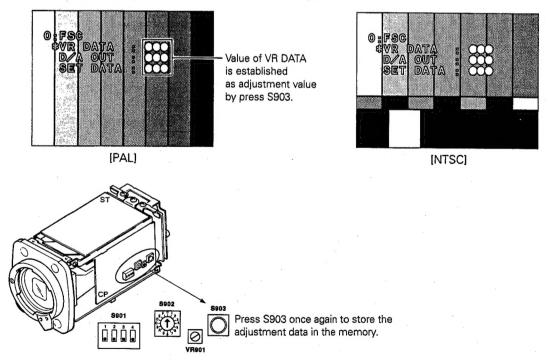
4. Press S903 (tact switch) on the CP board once, and "*" mark appears on the left of "VR DATA" in the adjustment picture. Then, each adjustment can be performed with VR901. At that time, make sure that the value of D/A OUT is the same as that of VR DATA.

If the selected adjustment is needless to perform, change the setting of S902 to another position for cancelling the selected adjustment. (Setting S901-4 to the "OFF" position also cancels the selection of the adjustment. However, if S901-4 is used to cancel the selected adjustment, it needs a fresh start for another adjustment in the "Adjustment mode".)

Note: S903 has two functions, one is to enter the set into the adjustable status and the other is to store the adjustment data that is set by VR901 in the EEPROM (IC903). Such being the case, if S903 is pressed in the adjustable mode ("*" mark is appearing on the left of "VR DATA"), stored adjustment data is replaced with new data. Be careful not to press S903 unreasonably.



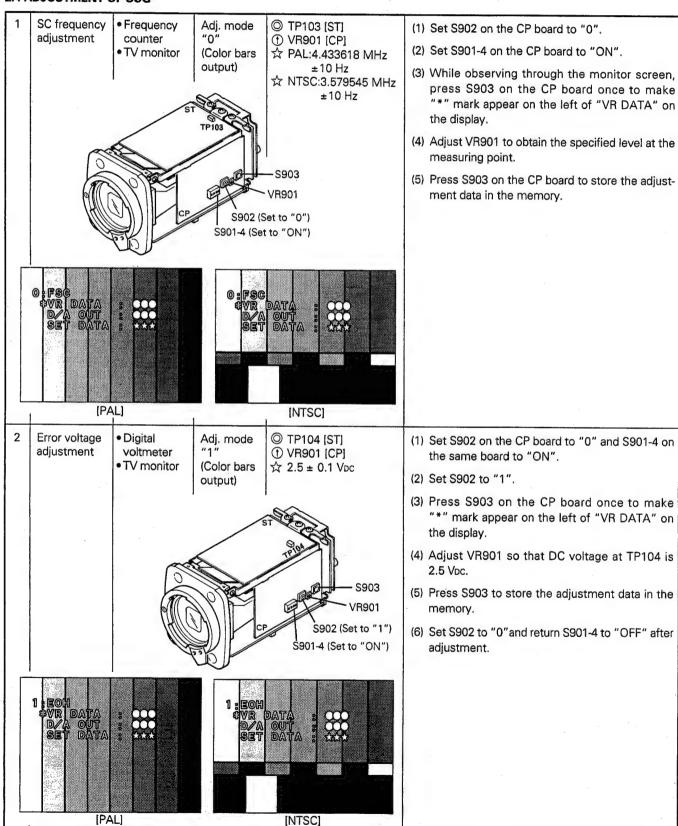
5. Adjust each item with VR901, press S903 after adjustment, and store adjustment data in EEPROM. In this function, confirm value of SET DATA on adjustment picture and value of VR DATA is equal.



Note: Return S902 to "0" and set S901-4 to "OFF" after all adjustments are complated.

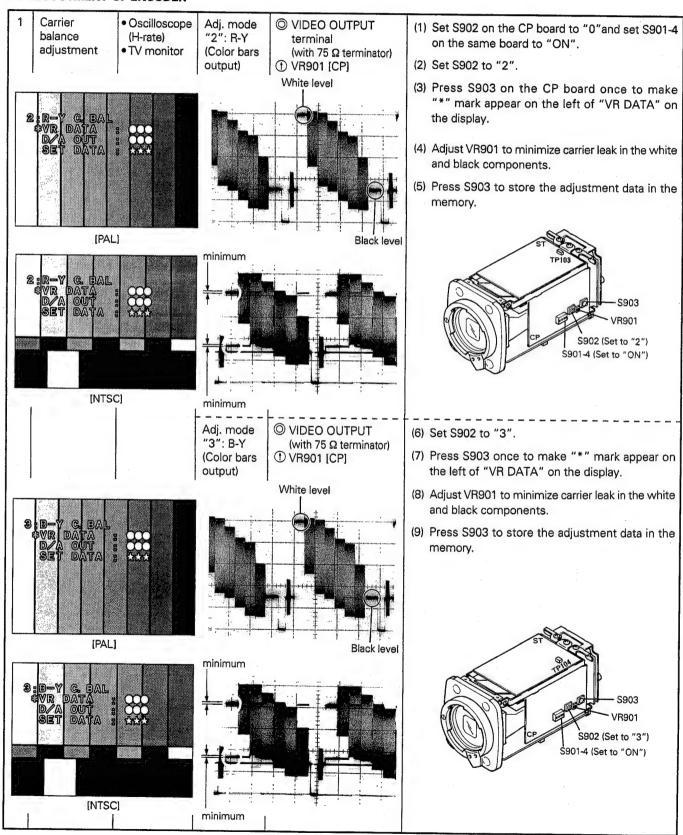
No.	ltem	measuring instrument & Input signal	Mode	Measuring point (◎) Adjustment parts (①) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------

2.4 ADJUSTMENT OF SSG



No.	Item	measuring instrument & Input signal	Mode	Measuring point (◎) Adjustment parts (①) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------

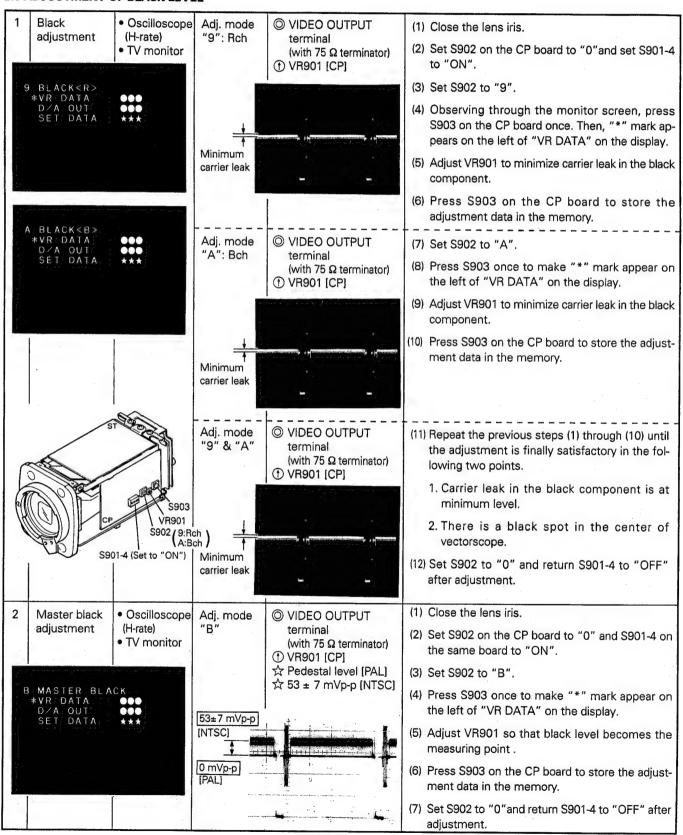
2.5 ADJUSTMENT OF ENCODER



No.	Item	measuring instrument & Input signal	Mode	Measuring point (©) Adjustment parts (①) Adjustment level (☆)	Adjustment procedure
	spot of the	Oscilloscope (H-rate) Vectorscope TV monitor CV MG MG CV MG CV MG A CV MG MG CV MG MG CV MG MG MG MG MG MG MG MG MG M	the spi	VIDEO OUTPUT (with 75 Ω terminator) VR901 [CP] with 75 Ω terminator) VR901 [CP] with 75 Ω terminator) VR901 [CP]	(10) Repeat the previous steps (1) through (9) untitude adjustment is finally satisfactory in the following two points. 1. Carrier leak in the white and black components is at minimum level. (less than 20 mNp-p) 2. The bright spot (white and black spots) in the center of the color bars signal is positioned in the center (intersection point of R-Y and B-Naxes) of the vectorscope screen. (Refer to the figure on the left.) (11) Set S902 to "0" and return S901-4 to "OFF" after adjustment.
2	the center of sponding to scope screet GAIN control	• Vectorscope • TV monitor Ty bright spot in fill mark correlit on the vectorit by adjusting its oil.	the cent	Severy bright spot in er of ⊞ mark corregio to it on the vector-reen by adjusting its nitrol. [NTSC]	 (1) Set S902 on the CP board to "0" and S901-4 on the same board to "ON". (2) Set S902 to "2" or "3" and output color bars signal. (3) Set the GAIN control (level regulating VR) of the vectorscope to the preset position, and confirm that the burst level is 75 % of the full level. If not, adjust the burst level to be 75 % with the GAIN control. (4) Adjust VR801 to position each spot (R, G, B, Mg, Cy, YL) at the center of the respectively specified points (marks) on the vectorscope screen. (5) Set S902 to "0" and return S901-4 to "OFF" after adjustment.

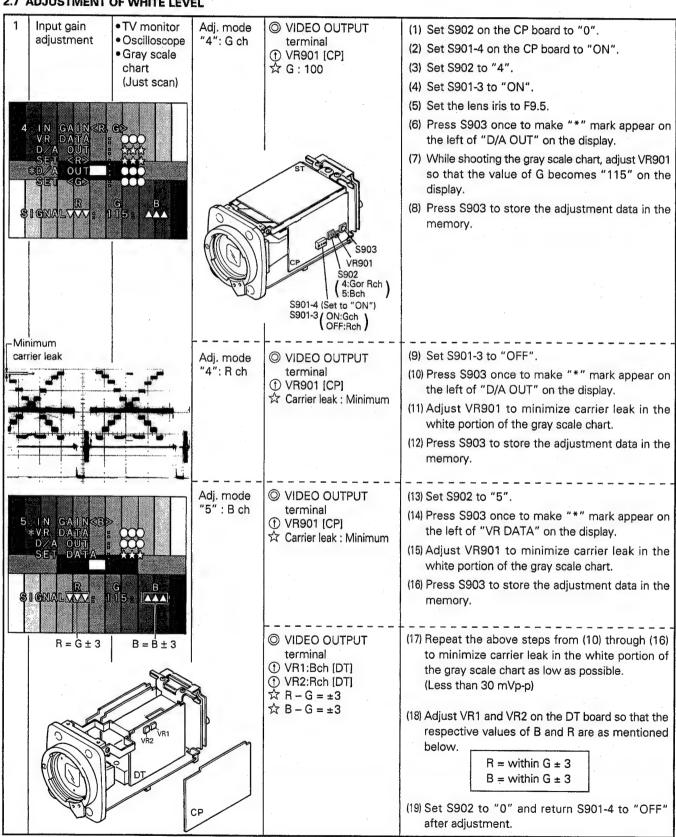
No. Item measuring instrument & Mode Adjustment parts (①) Adjustment level (☆)	Adjustment procedure
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2.6 ADJUSTMENT OF BLACK LEVEL



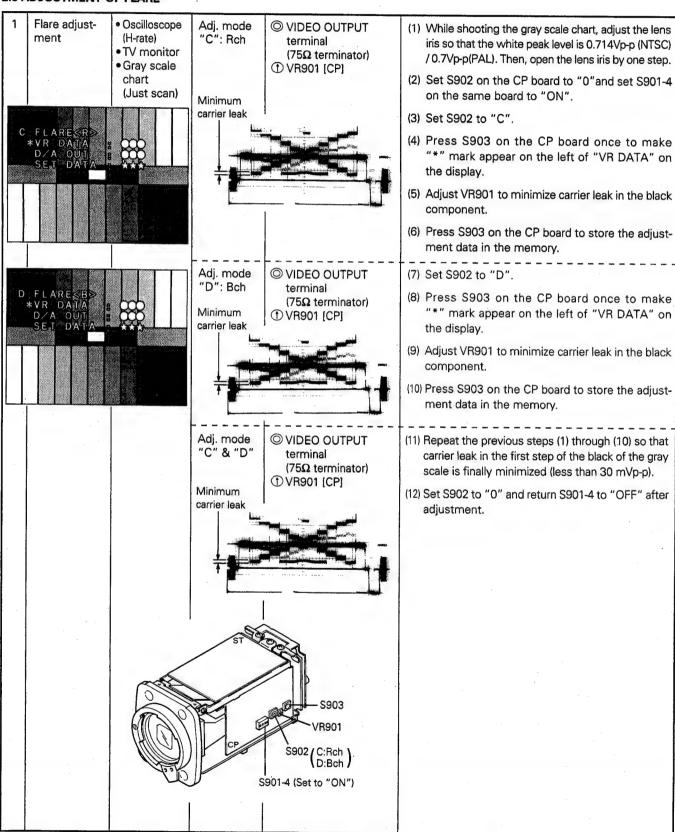
No.	ltem	measuring instrument & Input signal	Mode	Measuring point (◎) Adjustment parts (①) Adjustment level (☆)	Adjustment procedure
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2.7 ADJUSTMENT OF WHITE LEVEL



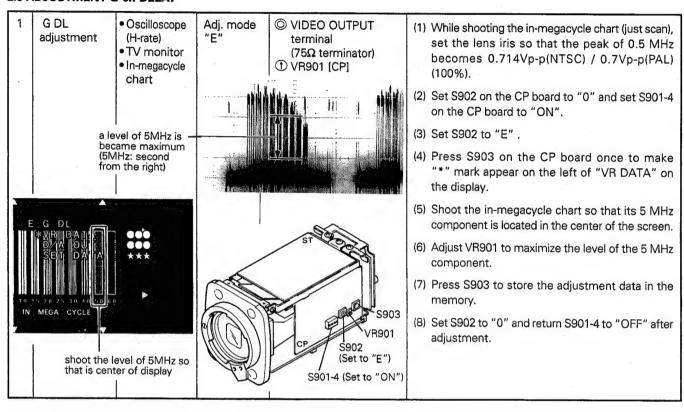
No. Item measuring instrument & Mode Adjustment parts (①) Adjustment level (☆)	Adjustment procedure
--	----------------------

2.8 ADJUSTMENT OF FLARE

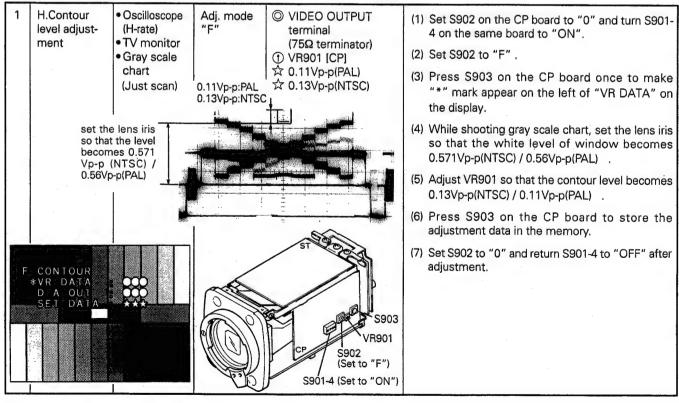


No.	ltem	measuring instrument & Input signal	Mode	Measuring point (◎) Adjustment parts (①) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------

2.9 ADJUSTMENT G-ch DELAY



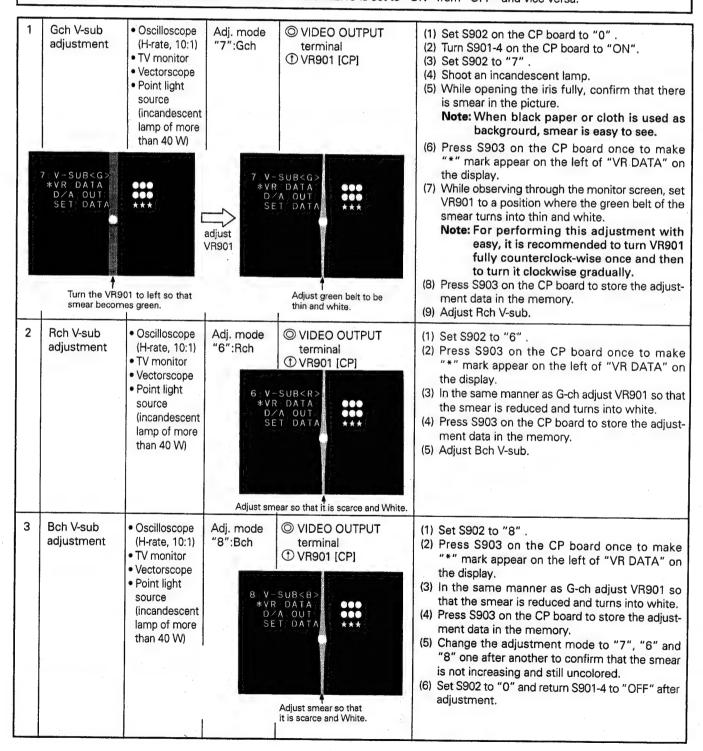
2.10 ADJUSTMENT OF CONTOUR CORRECTOR



No.	ltem	measuring instrument & Input signal	Mode	Measuring point (◎) Adjustment parts (①) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------

2.11 ADJUSTMENT OF V-sub VOLTAGE

- This adjustment should only be performed after replacement of the optical block assembly.
- Since this adjustment affects the degree of smear and dynamic range, it is required to confirm that there is nothing abnormal in the carrier balance of the highlight of the picture after completion of the adjustment. Moreover, while shooting the gray scale chart as the iris is opened too much, make sure that there is not a considerable change in the carrier of while portion in both a right half and a left half of the picture when the "HI-RESO" of the MENU is set to "ON" from "OFF" and vice versa.



SECTION 3 CHARTS AND DIAGRAMS

■ SCHEMATIC DIAGRAM NOTES

Schematic safety precaution
 A Parts are safety related parts.
 When replacing them, be sure to use the specified parts.

Voltage and waveform measurements.

Voltage: Measured with digital voltmeter in DC range; iris closed.

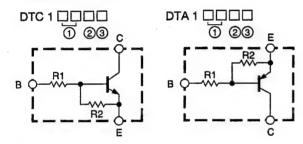
Waveform: Grey scale illuminated at more than 4000

lux at 3200 K lighting.

Terminal logic

Top bar of terminal name show input or output logic. Top bar shows, the control circuit become active at negative (low) logic input for example.

Digital transistors



1 Number in these two places expresses the ohmage of R1 in abbreviation.

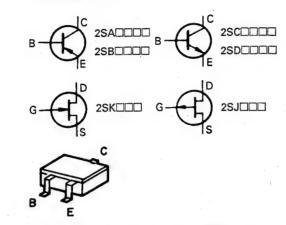
43 : 4.7kΩ 14 : 10 kΩ 24 : 22 kΩ 44 : 47 kΩ

2 Roman letter in the place expresses the resistive ratio between R1 and R2 in abbreviation.

E: R2/R1 = 1/1 Y: R2/R1 = 5/1 W: R2/R1 = 2/1 X: R2/R1 = 1/2 T: R2 is opened.

3 Symbol in this place expresses the shape of resistor in abbreviation.

Transistors and F.E.T.s are:



- Definistion of the (A) and the (B) or circuit boards diagrams
- (A) : Side on which discrete parts are assembled
- (B) : Side on which only chip parts are assembled.

■ REPLACING SUBMINIATURE "CHIP" PARTS

- Some resistors, shorting jumpers (0 Ω resistance), ceramic capacitors, transistors, and diodes are chip parts. These chip parts cannot be reused after they are once removed.
- Chip resistors used in some circuits are of high precision type having little error in resistance.

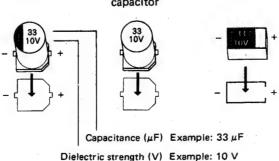
To demonstrate the full capacity of this camera head, place an order for proper parts referring to the diagrams and parts lists in the sections 5.

- Soldering cautions:
- 1) Do not apply heat for more than 3 seconds.
- 2) Avoid using a rubbing stroke when soldering.
- 3) Discard removed chips; do not reuse them.
- 4) Supplementary cementing is not required.
- 5) Use care not to scratch or otherwise damage the chips.
- Polarities of chip electrolytic capacitors and chip tanntalum capacitors used in this model are as illustrated below.

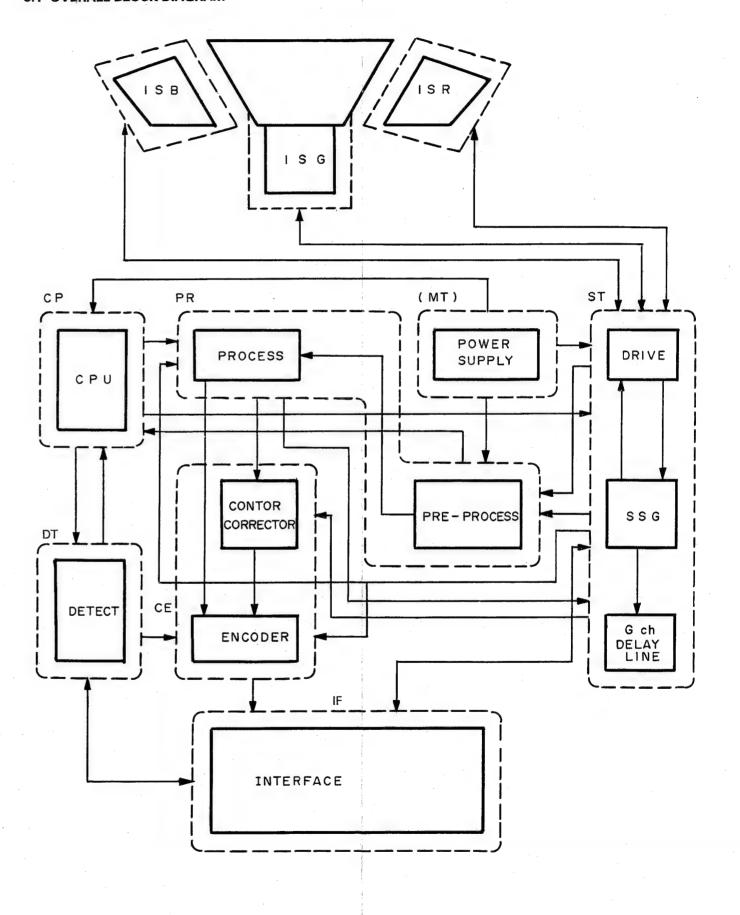
Polarties indicated by silk-screen printing on circuit boards are also shown below. When replacing such parts, make sure of polarities.

 Electrolytic capacitor Non-polarized electrolytic capacitor

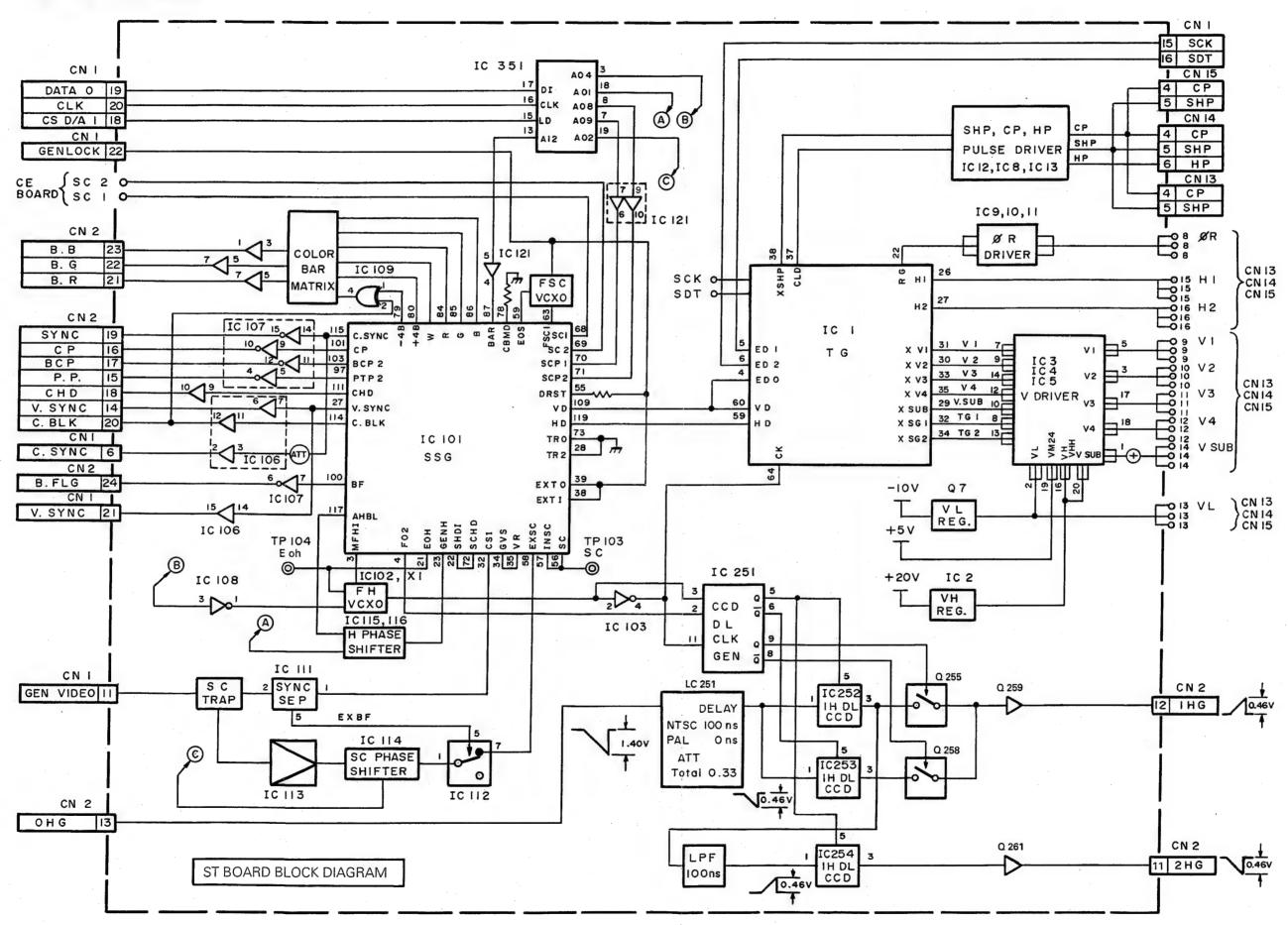
 Tantalum capacitor



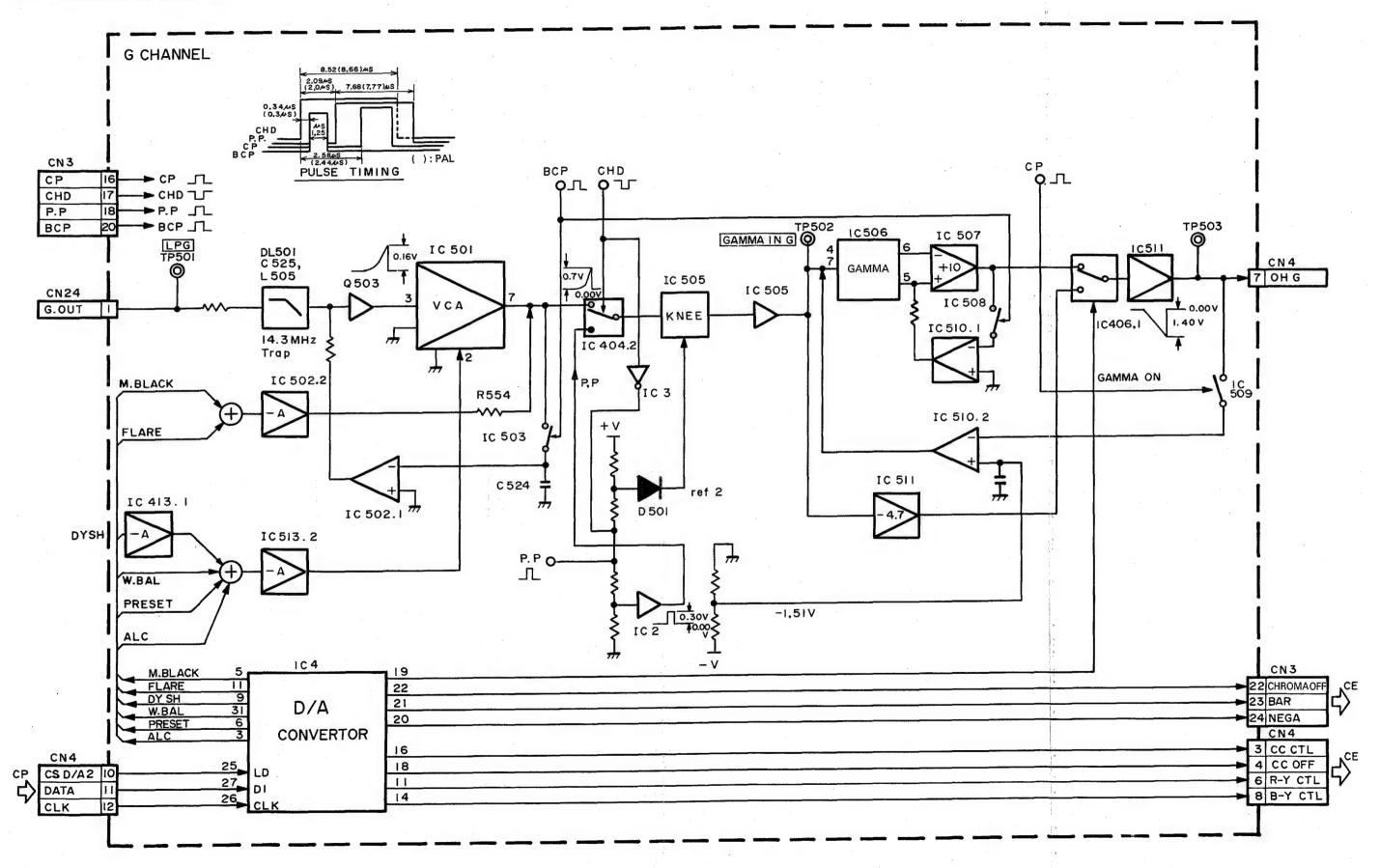
3.1 OVERALL BLOCK DIAGRAM



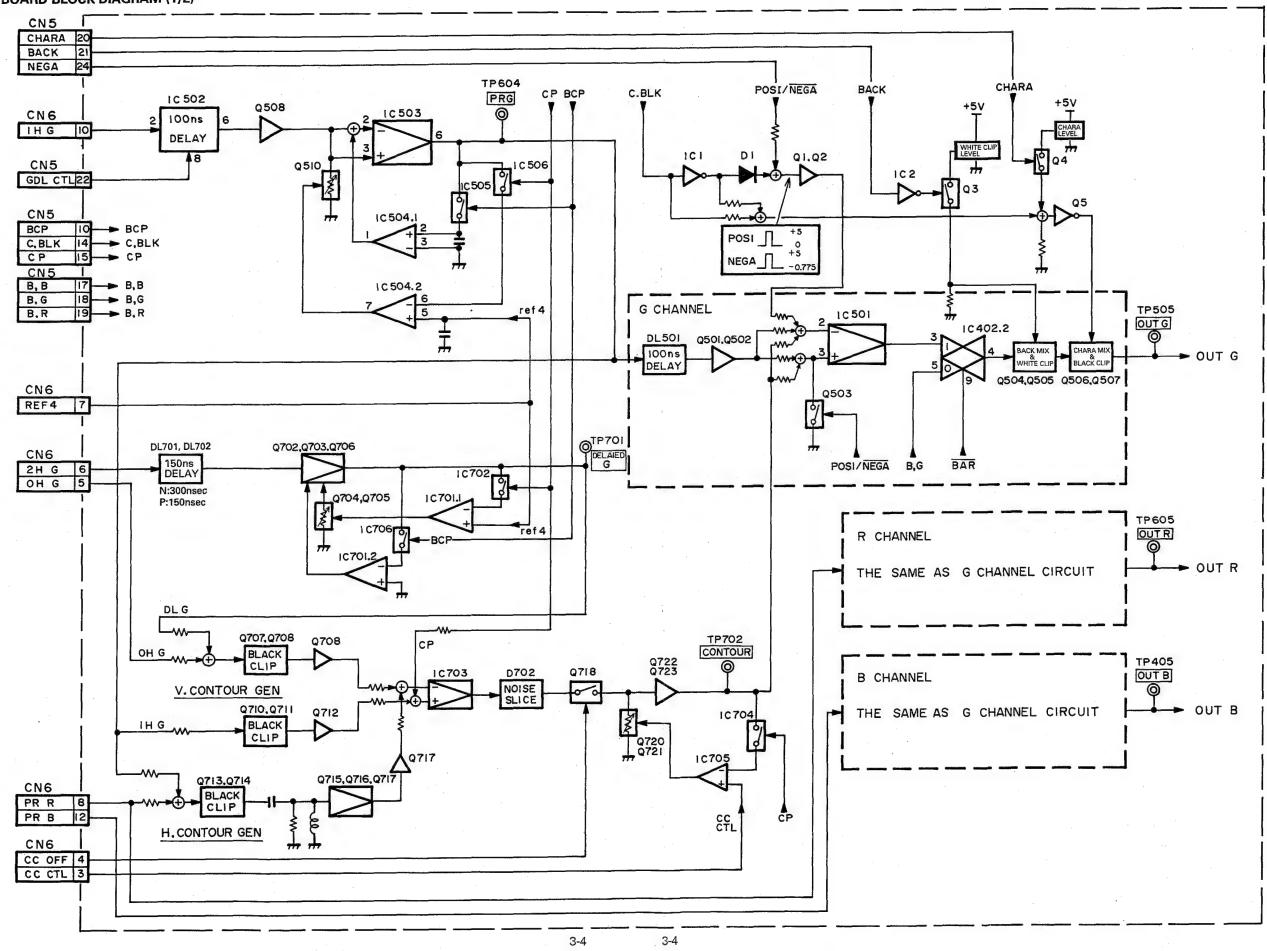
3.2 ST BOARD BLOCK DIAGRAM



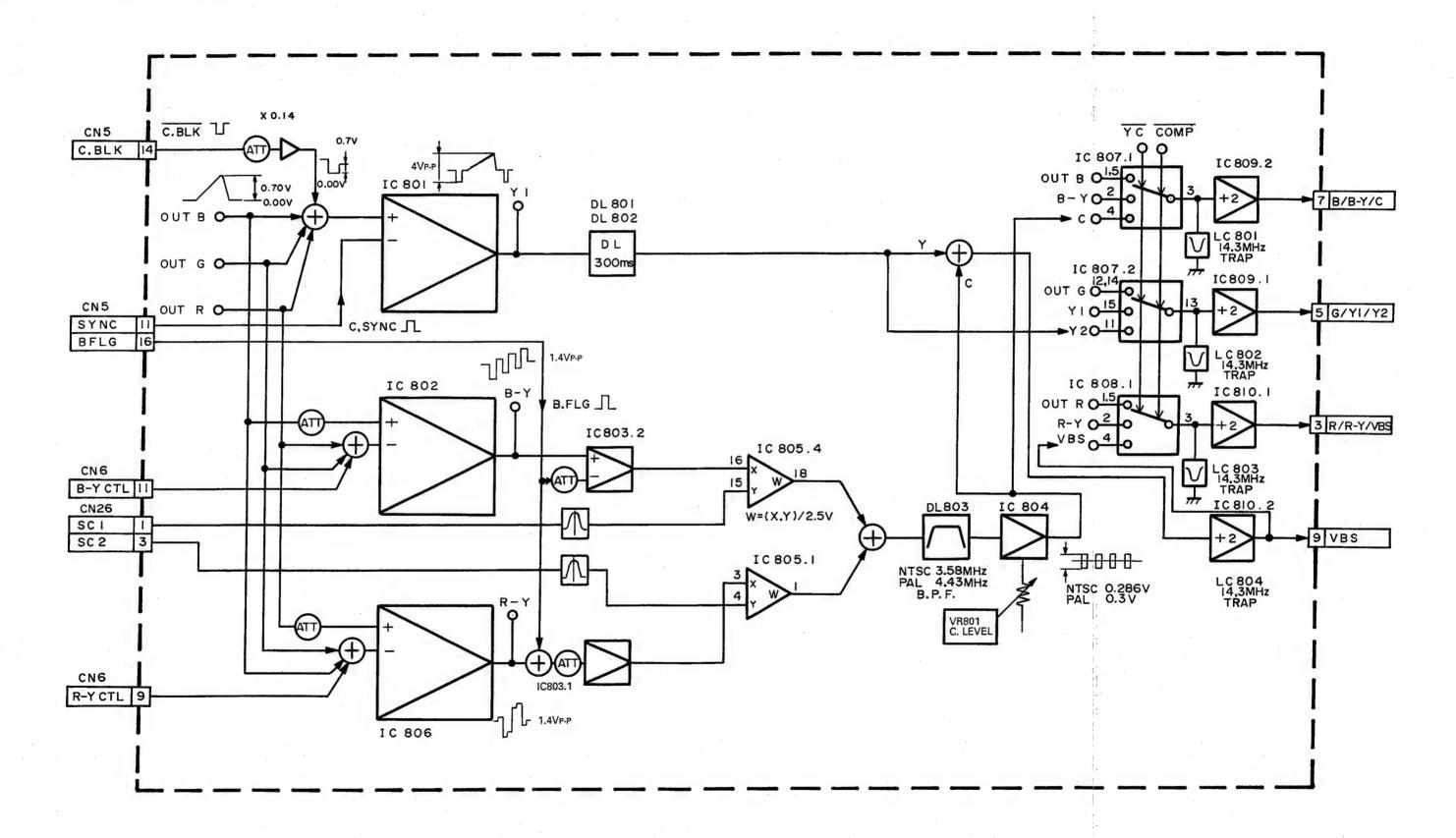
3.3 PR BOARD BLOCK DIAGRAM

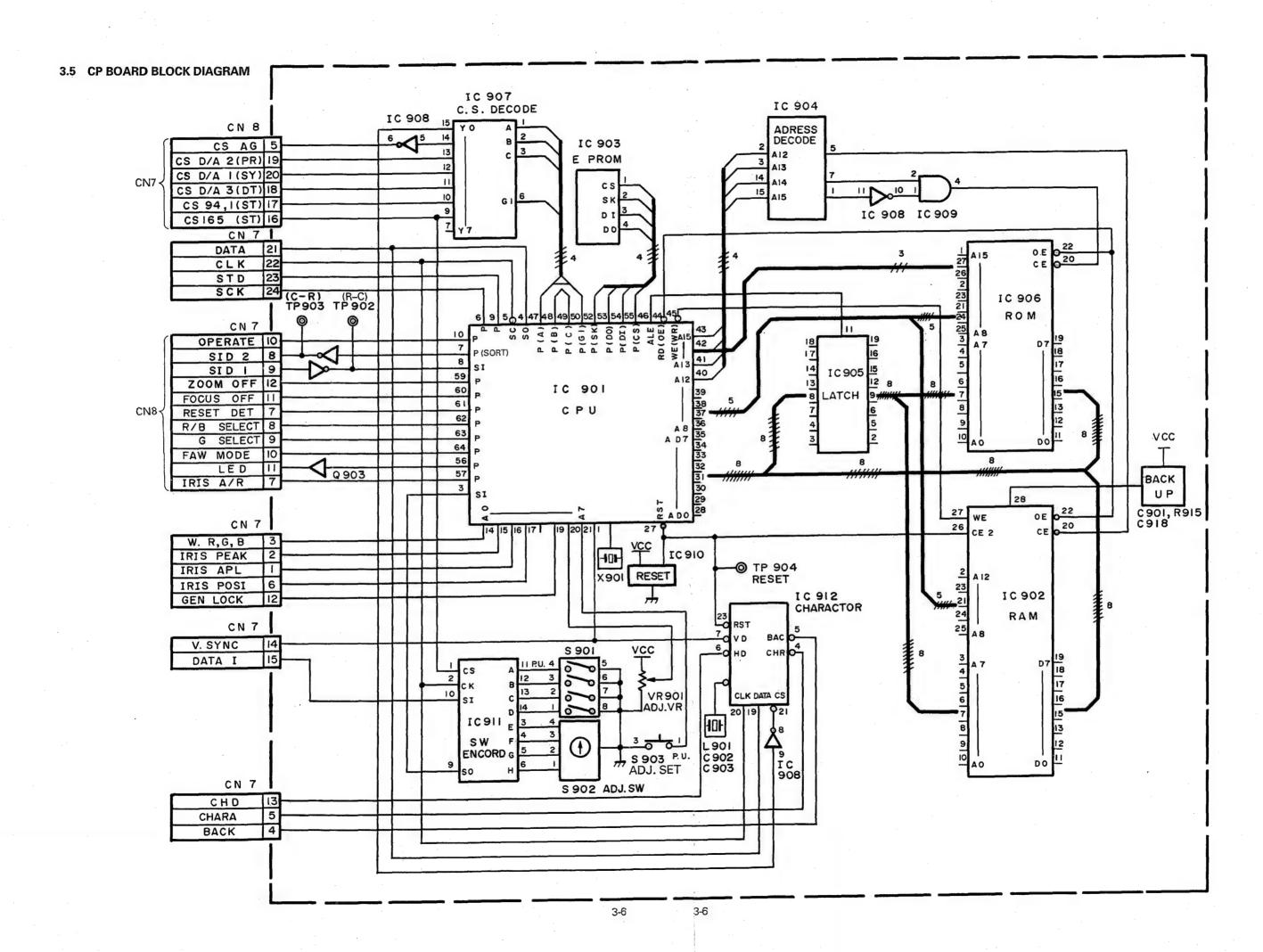


3.4 CE BOARD BLOCK DIAGRAM (1/2)

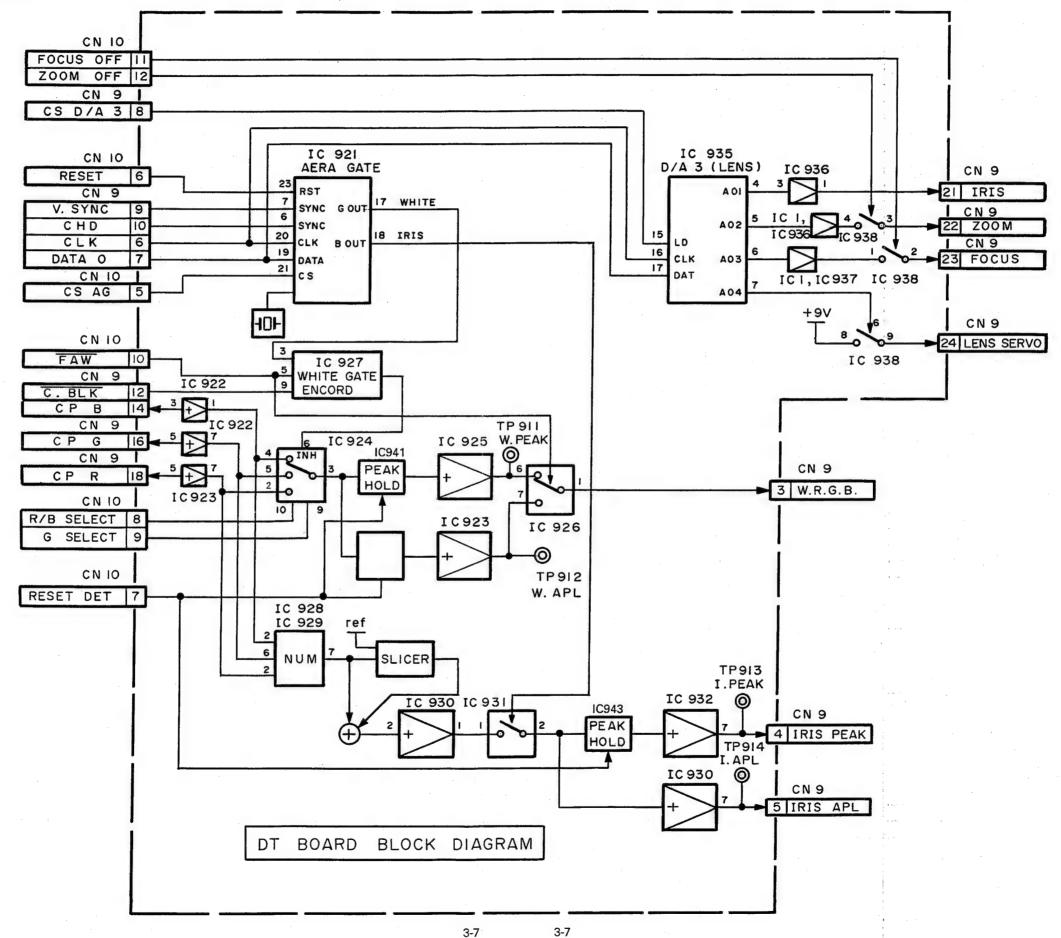


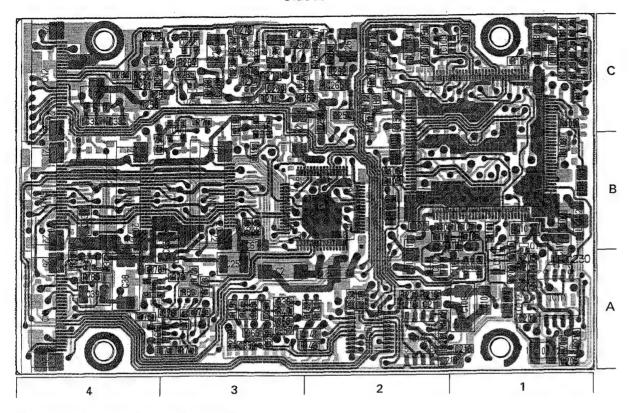
■ CE BOARD BLOCK DIAGRAM (2/2)

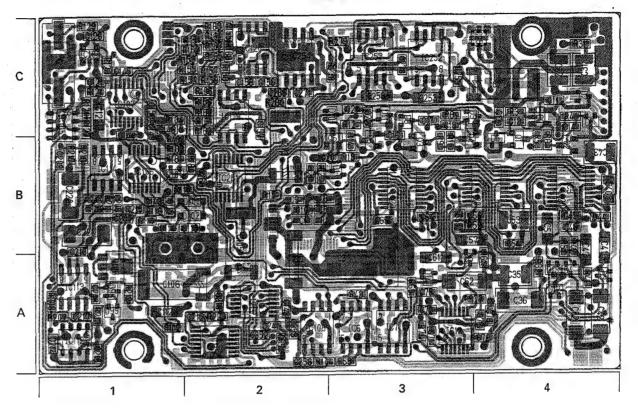




3.6 DT BOARD BLOCK DIAGRAM



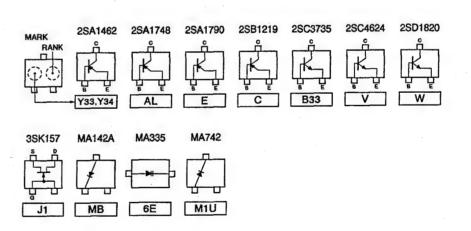


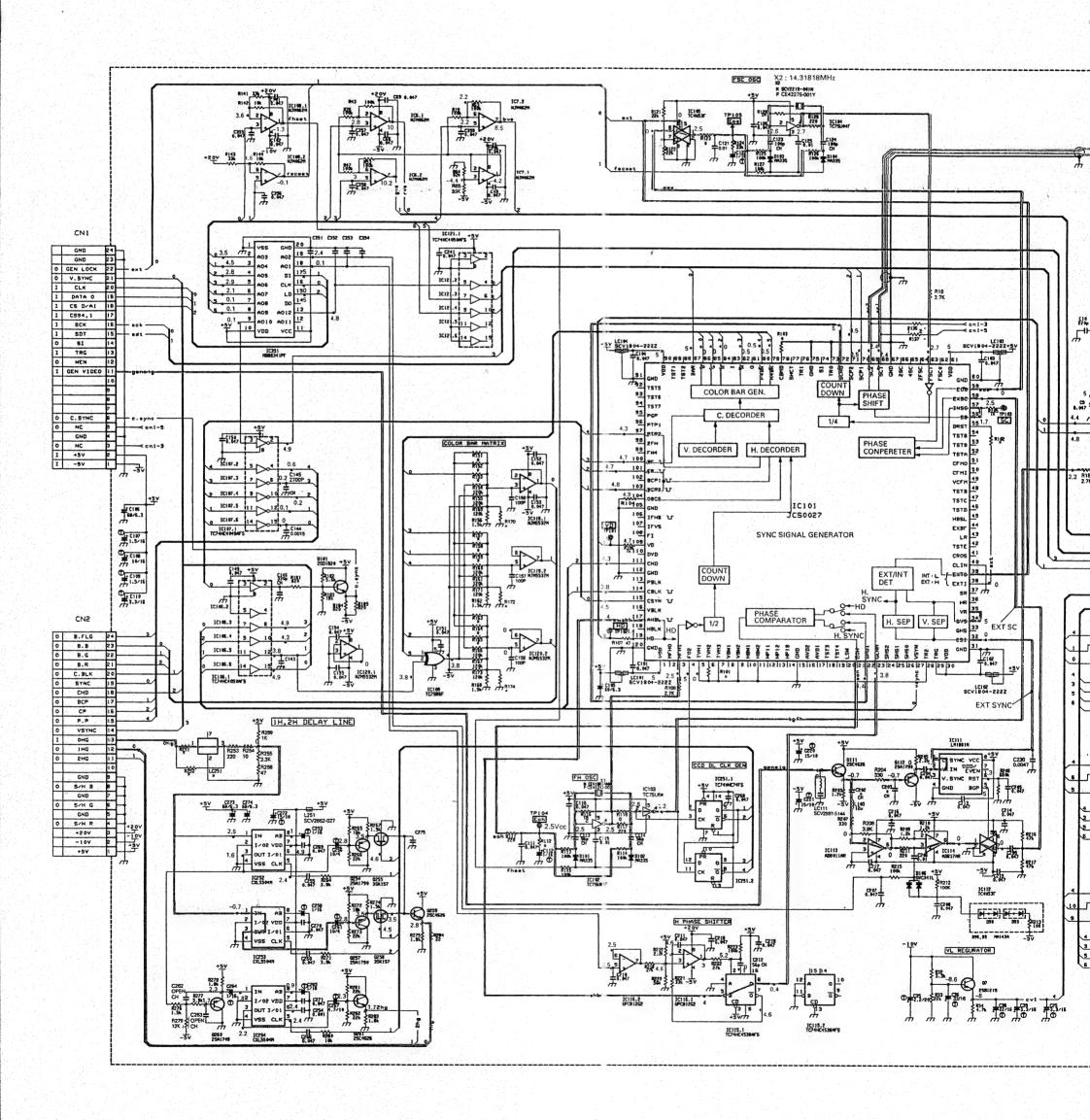


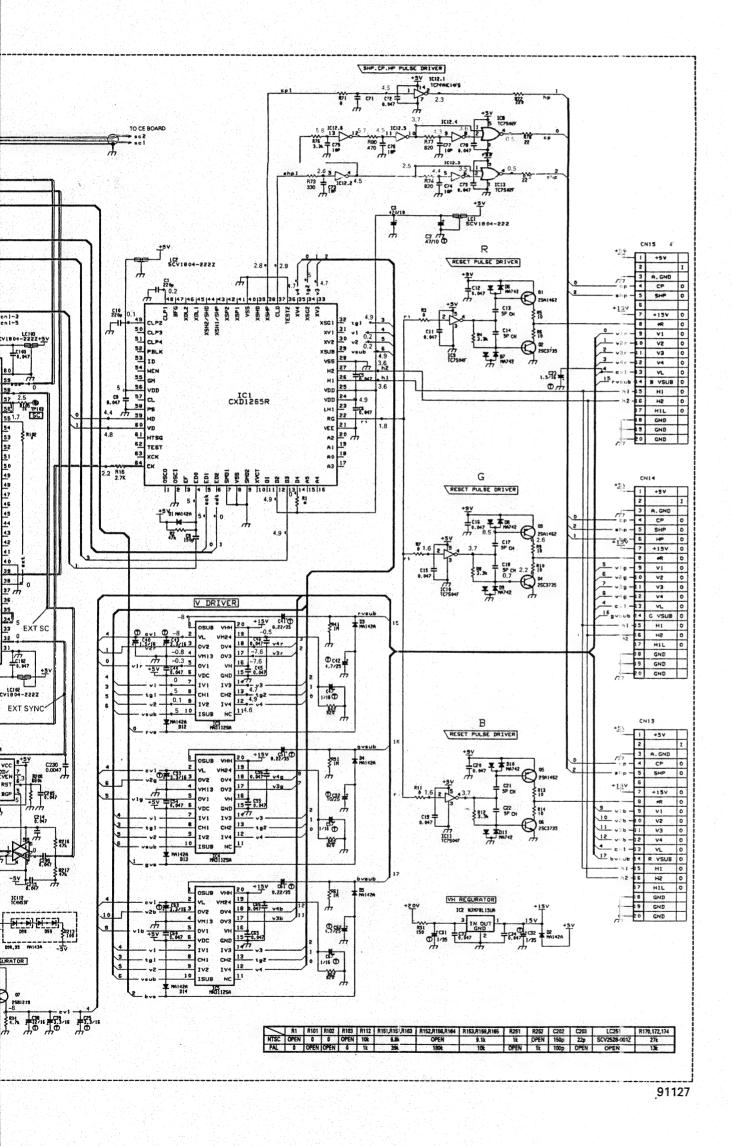
ADDRESS TABLE OF BOARD PARTS

Each address may have an address error by one interval.

															_	_			
IC1	A-2B	Q7	A-4A	R10	B-3B	R111	A-1B	R173	A-2C	R276	A-3C	C43	B-4B	C113	B-2B	C219	B-2A	LC1	A-2A
IC2	A-4C	Q101	B-1B	R11	A-3B	R112	B-1A	R174	A-2C	R277	A-3C	C44	B-4B	C114	B-1B	C220	B-1B	LC2	B-2B
	B-4B	Q111	A-1B	R12	B-3C	R113	B-1B	R181	B-1B	R278	B-3C	C45	B-4B	C115	B-1B	C221	B-1B		
C3		Q112	A-1A	R13	B-3B	R114	B-1B	R182	B-1B	R279	B-3C	C46	B-4B	C116	A-1A	C236	A-3A	X1	A-2B
C4	B-4B				B-3B	R115	B-1B	R183	B-1B	R280	B-2C	C47	B-4A	C121	B-1C	C241	B-2A	X2	B-10
C5	B-3B	Q254	A-3C	R14					B-2B	R281	A-2C	C49	A-3A	C122	B-1C	C253	B-3C		
C6	B-3A	Q255	A-3C	R15	B-2B	R116	A-2B	R184				C51	B-4B	C123	A-1C	C254	A-2C	LC101	A-2A
C7	B-3A	Q257	A-3C	R16	A-1C	R117	A-1B	R185	A-4A	R282	A-2C		B-4A	C124	A-1C	C255	A-3C	LC102	A-1B
C8	A-4A	Q258	A-3C	R19	A-3A	R118	A-1B	R203	A-1A	R283	A-2C	C52			A-1C	C256	A-3C	LC103	A-10
C9	B-4C	Q259	A-3C	R31	B-4C	R121	B-1C	R204	A-1A	R284	A-4C	C53	B-4B	C125		C258	B-3C	LC104	A-2C
C10	A-3C	Q260	A-3C	R32	B-4A	R122	B-1C	R205	A-1A			C54	B-4B	C126	B-1C			LC104	A-1A
C11	A-3C	Q261	A-2C	R33	A-4A	R123	A-1C	R206	A-1A	C1	B-2B	C55	B-3B	C141	A-2A	C260	A-3C		B-4C
C12	B-3A			R34	A-4A	R124	B-1C	R207	B-1A	C2	A-3A	C56	B-48	C142	B-2A	C261	A-3C	LC251	D-40
C13	A-4A	D1	B-3B	R36	A-3A	R125	A-1C	R208	B-1A	C3	B-3A	C57	B-4B	C143	B-1B	C262	A-3C	0114	
C101	A-1B	D2	B-4C	R41	B-4A	R126	A-1C	R209	B-1B	C5	B-2B	C61	B-3A	C144	B-1B	C263	A-3C	CN1	A-4A
C102	A-2A	D3	B-4A	R42	B-4B	R127	A-1C	R210	B-1B	C6	B-2B	C62	B-3A	C145	B-1C	C265	A-2C	CN2	A-4C
C103	A-1A	D4	B-4A	R43	B-3A	R128	B-1C	R211	B-1B	C8	B-2B	C63	A-3B	C146	B-1C	C266	B-2C	CN13	A-3B
	B-1C	D5	B-4A	R47	A-3A	R129	B-1C	R212	B-1A	C9	B-2B	C64	B-3B	C149	B-1C	C267	A-2C	CN14	A-4B
C104		D6		R51	B-4B	R141	A-2A	R213	B-1A	C10	B-2B	C65	B-3B	C150	B-1C	C268	B-2B	CN15	A-4B
C105	B-1C		B-4B		B-4B	R142	A-3A	R215	B-1B	C11	B-4C	C66	A-3B	C151	A-2C	C269	A-3C	1	
C106	B-1B	D7	B-4C	R52					B-1B	C12	B-4C	C67	A-3B	C152	A-2C	C270	B-3C		
C107	B-1C	D8	B-3C	R53	B-3A	R143	A-2A	R216	B-1B	C13	B-4C	C68	A-3A	C153	A-2C	C271	B-2C	1	
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C109	A-2C	D10	B-3C	R62	A-3B	R151	B-2C	R218	A-2A	C14				C155	B-2C	C273	B-2B	ł	
IC111	A-1A	D11	B-3C	R63	B-3A	R152	B-2C	R219	A-2A	C15	A-4B	C71	B-3A	C156	B-2C	C274	B-4C	Į.	
C112	B-1A	D12	B-4A	R64	A-3A	R153	B-2C	R220	A-2A	C16	B-3B	C72	B-3A		B-2C	C275	A-3C	1	
C113	B-1A	D13	B-4A	R65	A-3A	R154	B-2C	R221	A-2A	C17	B-3C	C73	A-3A	C157		C351	B-2A	1	
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C116	A-2A	D99	B-1A	R73	A-3A	R157	B-2C	R251	A-4C	C20	B-3B	C76	A-3A	C203	A-1A	C353	A-2A	1	
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2121	B-2A	D103	A-1C	R76	A-3A	R160	B-2C	R254	A-4C	C23	A-4B	C79	B-4A	C206	B-1B	C356	B-2A	ŧ.	
2251	B-2B	D104	A-1C	R77	B-4A	R161	B-2C	R255	A-4C	C25	A-3A	C101	A-2B	C207	B-1B	C357	A-3A		
0251	B-3C	D104	B-1A	R78	A-4A	R162	B-2C	R256	A-4C	C31	B-4C	C102	A-1B	C208	B-1A	C358	A-3A	1	
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		Ď4	8-2B	R80	A-3A	R164	B-2C	R264	A-3C	C33	A-4C	C104	A-2C	C210	A-1A			(
C254	B-2C	R1			A-1B	R165	B-2C	R265	A-3C	C34	A-4C	C105	B-2B	C211	A-2A	L103	A-1A		
C351	A-2A	R2	B-2B	R101						C35	B-4A	C106	B-1A	C212	B-2A	L251	A-2C		
		R3	B-4C	R102	A-1B	R166	B-2C	R266	A-3C			C100	A-1B	C213	A-1A				
21	B-4B	R4	B-4C	R103	A-1C	R167	B-2C	R267	A-3C	C36	B-4A			C214	B-1A	TP101	A-2B		
22	B-4B	R5	B-4B	R104	B-1C	R168	B-2C	R271	A-3C	C38	A-4A	C108	A-1A		B-1A	TP102	A-2B		
23	B-3B	R6	B-4B	R105	A-1C	R169	A-2C	R272	A-3C	C39	A-4A	C109	A-1A	C215		TP103	A-1B		
24	B-48	R7	A-3C	R106	A-2B	R170	A-2C	R273	A-3C	C40	B-4B	C110	A-1A	C216	B-1A				
25	B-3B	R8	B-3C	R107	A-2B	R171	A-2C	R274	A-3C	C41	B-4A	C111	A-1A	C217	B-1A	TP104	A-1A	l	
26	B-3B	R9	B-38	R108	A-2B	R172	A-2C	R275	A-4C	C42	B-4A	C112	B-1A	C218	A-2A			_	

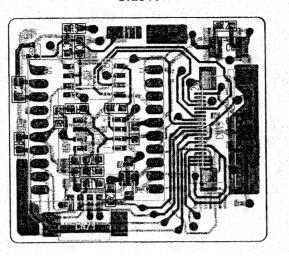




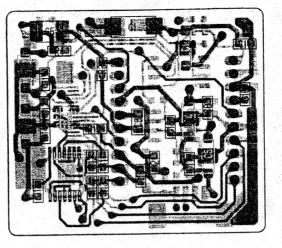


3-9

- Side A -



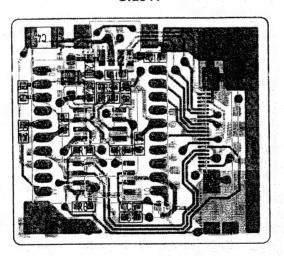
- Side B -



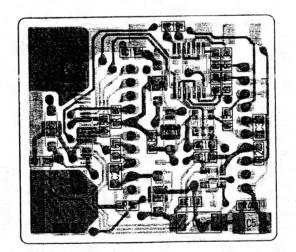
MARK 2SC4626

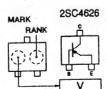
ISR board

- Side A -



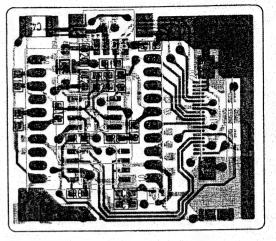
- Side B -

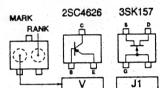




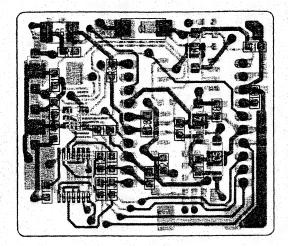
● ISG board

- Side A -



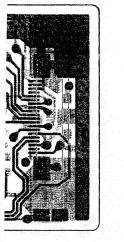


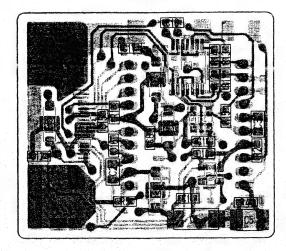


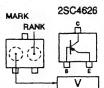


MARK 2SC4626

- Side B -

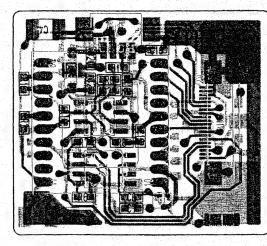


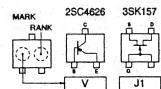




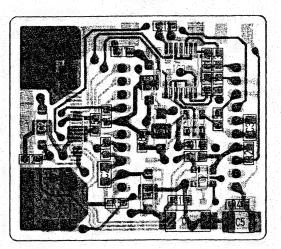
• ISG board

- Side A -

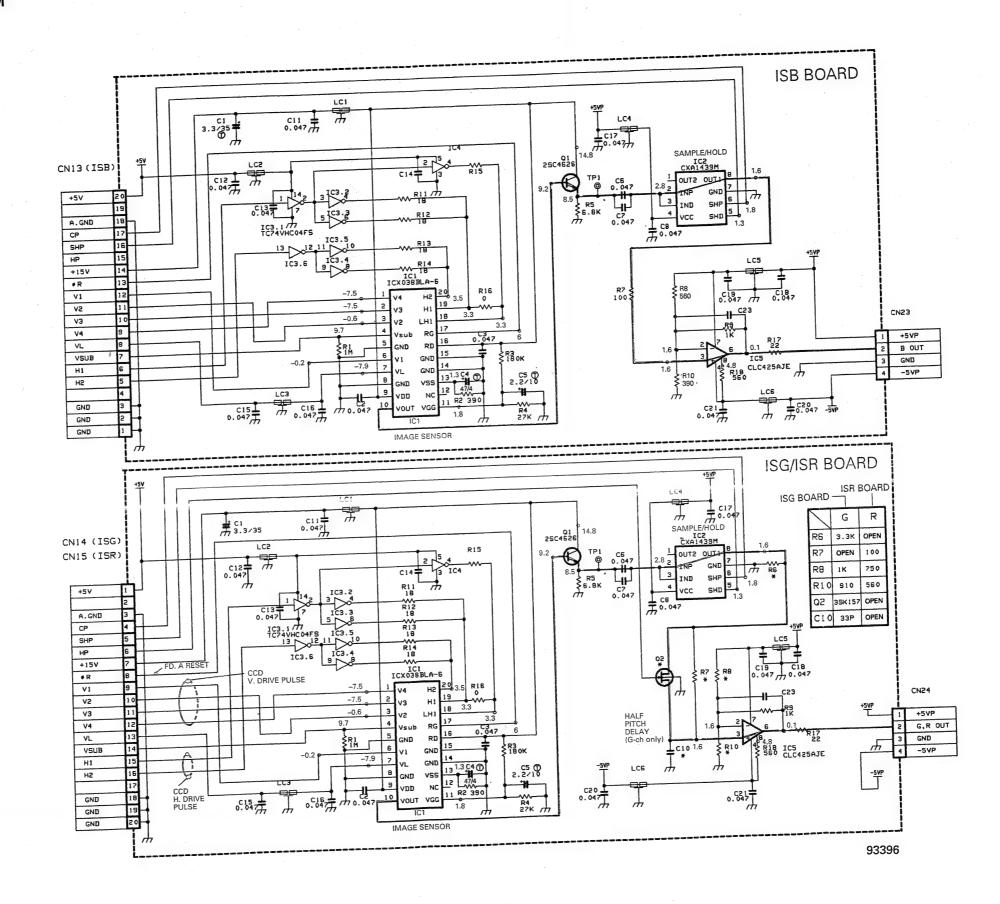




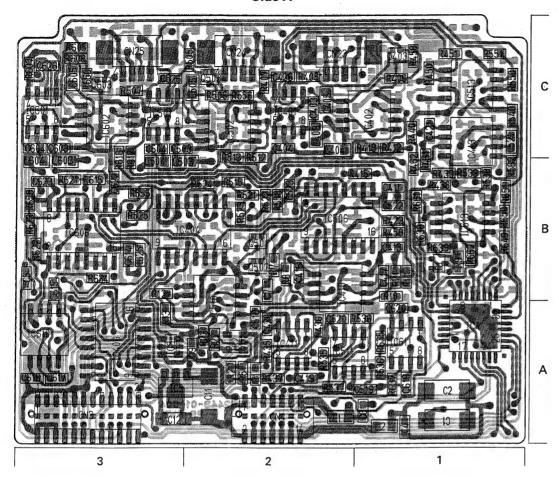
- Side B -



3.10 ISB/ISG/ISR SCHEMATIC DIAGRAM

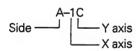


3-11

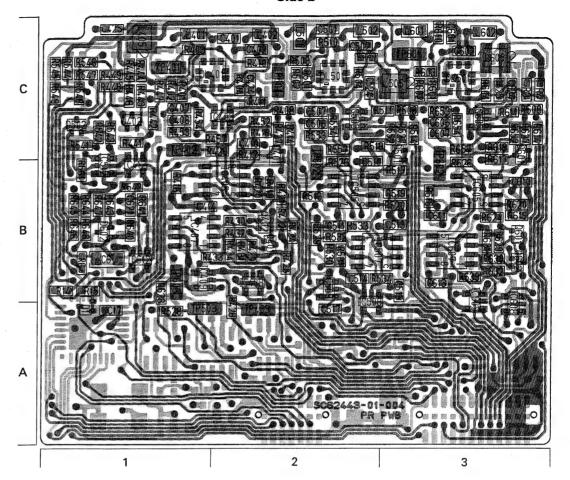


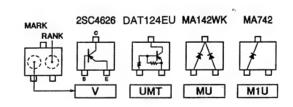
ADDRESS TABLE OF BOARD PARTS

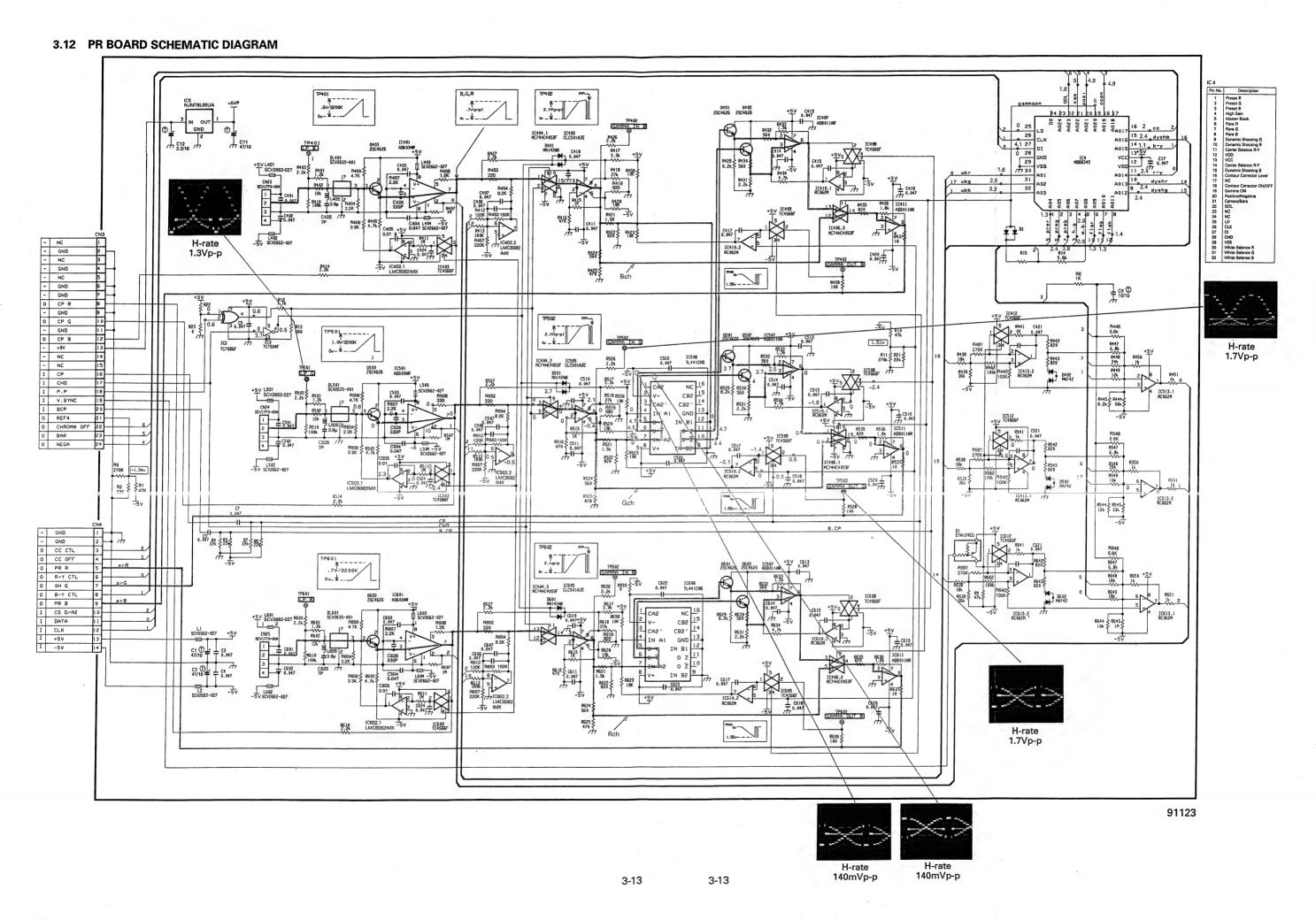
Each address may have an address error by one interval.



- 14	C2	A-2A	IC610	A-3A	R14	B-1B	R434	B-2B	R513	A-2B	R550	A-1C	R628	B-1B	C5	A-3B	C515	B-3B	L402	B-2C
- 11	C3	A-3A	IC611	A-1A	R15	B-1B	R435	A-2A	R514	B-3C	R551	A-1C	R629	B-3B	C6	B-1B	C517	B-2A	L403	A-2C
	C4	A-1A	IC612	B-1B	R21	A-1B	R436	A-2A	R515	A-2B	R552	B-3C	R630	B-3B	C7	A-2B	C518	A-2A	L404	A-2C
	C5	A-3A	IC613	A-1B	R22	A-2A	R437	A-2A	R516	B-2B	R553	B-2C	R631	B-3B	C9	A-2A	C519	A-1A	L405	B-1C
	C401	A-2C	10010	A 10	R23	A-2A	R438	A-1B	R517	B-3B	R554	B-2C	R632	B-3B	C11	A-2A	C520	A-2A	L501	B-2C
	C402	A-1C	Q1	A-1B	R401	B-1C	R439	A-1B	R518	B-2C	R555	A-3B	R633	B-3B	C12	A-3A	C520	A-1C	L502	B-2C
	C403	B-2C	Q401	B-2B	R402	B-1C	R440							A-3B	C17		C522			
	C404	A-2B	Q401 Q402	B-2B		B-1C		A-1C	R519	B-3B	R556	A-2C	R634			B-1A		A-1B	L503	A-3B
	C404 C405	B-2B			R403		R441	B-1C	R520	B-3B	R557	B-2C	R635	A-1A	C401	B-2C	C523	A-2B	L504	A-3B
			Q403	A-1C	R404	B-2C	R442	B-1C	R521	A-2B	R558	A-2B	R636	A-1A	C402	B-2C	C524	B-2C	L505	B-3C
	C406	A-3A	Q501	A-2B	R405	A-2C	R443	B-1C	R522	A-2B	R561	B-1B	R637	A-1A	C403	A-2C	C525	B-2C	L601	B-3C
	C407	B-1B	Q502	A-2B	R406	A-1C	R444	B-1C	R523	A-2B	R562	A-1B	R638	A-1B	C404	A-2C	C526	A-3C	L602	B-3C
	C408	B-2B	Q503	A-2C	R407	A-2C	R445	B-1C	R524	A-2B	R601	B-3C	R639	A-1B	C405	A-2C	C601	B-3C	L603	A-3B
	C409	B-1B	Q601	B-3B	R408	B-2C	R446	B-1C	R525	A-3B	R602	B-3C	R640	B-1B	C406	B-1C	C602	B-3C	L604	A-3B
	C410	A-2B	Q602	B-3B	R410	B-2C	R447	B-1C	R526	B-2B	R603	B-3C	R641	B-1B	C407	B-1C	C603	A-3C	L605	B-3C
	C411	A-2A	Q603	A-3C	R411	B-2C	R448	B-1C	R527	B-3C	R604	B-3C	R642	B-1B	C410	B-2C	C604	A-3C		
	C412	B-1B			R412	A-1C	R449	B-1C	R528	B-1A	R605	A-3C	R643	B-1B	C411	A-1B	C605	A-3C	DL401	B-2C
	C413	A-1C	D1	B-1A	R413	A-1C	R450	A-1C	R529	B-2B	R606	A-3C	R644	B-1B	C413	A-1B	C606	B-3C	DL501	B-2C
	C501	A-3C	D401	B-2C	R414	B-2C	R451	A-1C	R530	B-2B	R607	A-3C	R645	B-1B	C414	B-1B	C607	B-3C	DL601	B-3C
- 10	C502	A-2C	D402	B-1C	R415	A-2B	R452	B-2C	R531	B-2B	R608	B-3C	R646	B-1B	C415	A-2B	C610	B-3B		
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10	C505	B-2B	D502	B-1C	R417	B-2C	R454	B-1C	R533	B-2B	R611	B-3C	R648	B-1B	C419	A-2A	C613	B-3B	TP402	B-1C
10	C506	A-1B	D601	B-3C	R418	B-2C	R456	A-1C	R534	B-3B	R612	A-3B	R649	A-1B	C420	A-2A	C614	A-3B	TP403	B-2A
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10	C509	B-2B	R1	A-2A	R421	B-2B	R461	A-1B	R537	A-2A	R615	A-3B	R652	B-3C	C425	B-1C	C618	A-3A	TP503	B-1A
1 10	C510	A-2B	R2	A-2A	R422	B-2B	R462	A-1B	R538	A-1B	R616	B-3B	R653	B-3C	C426	A-2C	C619	A-1A	TP601	B-3C
	2511	A-1A	R3	B-3C	R423	A-1B	R501	B-2C	R539	A-1B	R617	B-3B	R654	B-3C	C501	B-2C	C620	A-1A	TP602	B-3B
	2512	B-1B	R4	B-3C	R424	B-2B	R502	B-2C	R540	A-1C	R618	B-3C	R656	A-3C	C502	B-2C	C621	B-1B	TP603	B-1B
	2513	A-1C	R5	A-2A	R425	B-2B	R503	B-2C	R541	B-1C	R619	B-3B	R657	B-3C	C503	A-3C	C622	A-3B	555	2 .5
	2601	A-3C	R6	B-1B	R426	B-2C	R504	B-2C	R542	B-1C	R620	B-3B	R658	A-3B	C504	A-3C	C623	A-3B	CN3	A-3A
	2602	A-3C	R7	A-2B	R427	B-2C	R505	A-3C	R543	B-1C	R621	A-3B	R661	A-1B	C505	A-3C	C624	B-3C	CN4	A-2A
	2603	B-3C	R8	A-2B	R428	B-2A	R506	A-2C	R544	B-1C	R622	A-3B	R662	A-1B	C506	B-2C	C625	B-3C	CN23	A-2C
	2605	B-3B	R9	A-1B	R429	B-2B	R507	A-3C	R545	B-1C	R623	A-3B	11002	A 10	C507	B-2C	C626	A-3C	CN24	A-2C
	2606	A-3B	R10	A-1B	R430	B-2B	R508	B-3C	R546	B-1C	R624	B-3B	C1	A-1A	C510	B-2B	0020	7 30	CN25	A-3C
	2607	B-3B	R11	A-1B	R431	B-2B	R510	B-2C	R547	B-1C	R625	A-3B	C2	A-1A	C511	B-2B	L1	A-2A	0,420	7 00
	2608	B-3A	R12	A-3B	R432	B-2B	R511	B-3C	R548	B-1C	R626	B-3B	C3	A-1A	C513	B-3B	L2	A-1A		- 1
	2609	B-3A	R13	A-3A	R433	B-2B	R512	A-2B					C4					B-1C		- 1
LIC	2009	D-3A	UIS	A-JA	N433	D-2D	n312	A-2B	R549	B-1C	R627	B-3C	U4	A-1A	C514	B-2B	L401	B-10		1

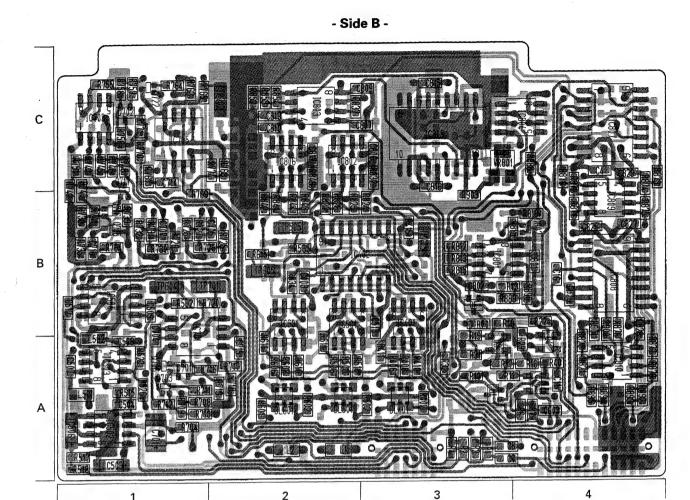






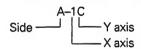
3.13 CE CIRCUIT BOARD

- Side A -

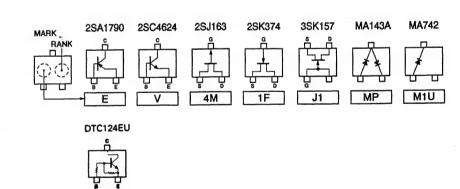


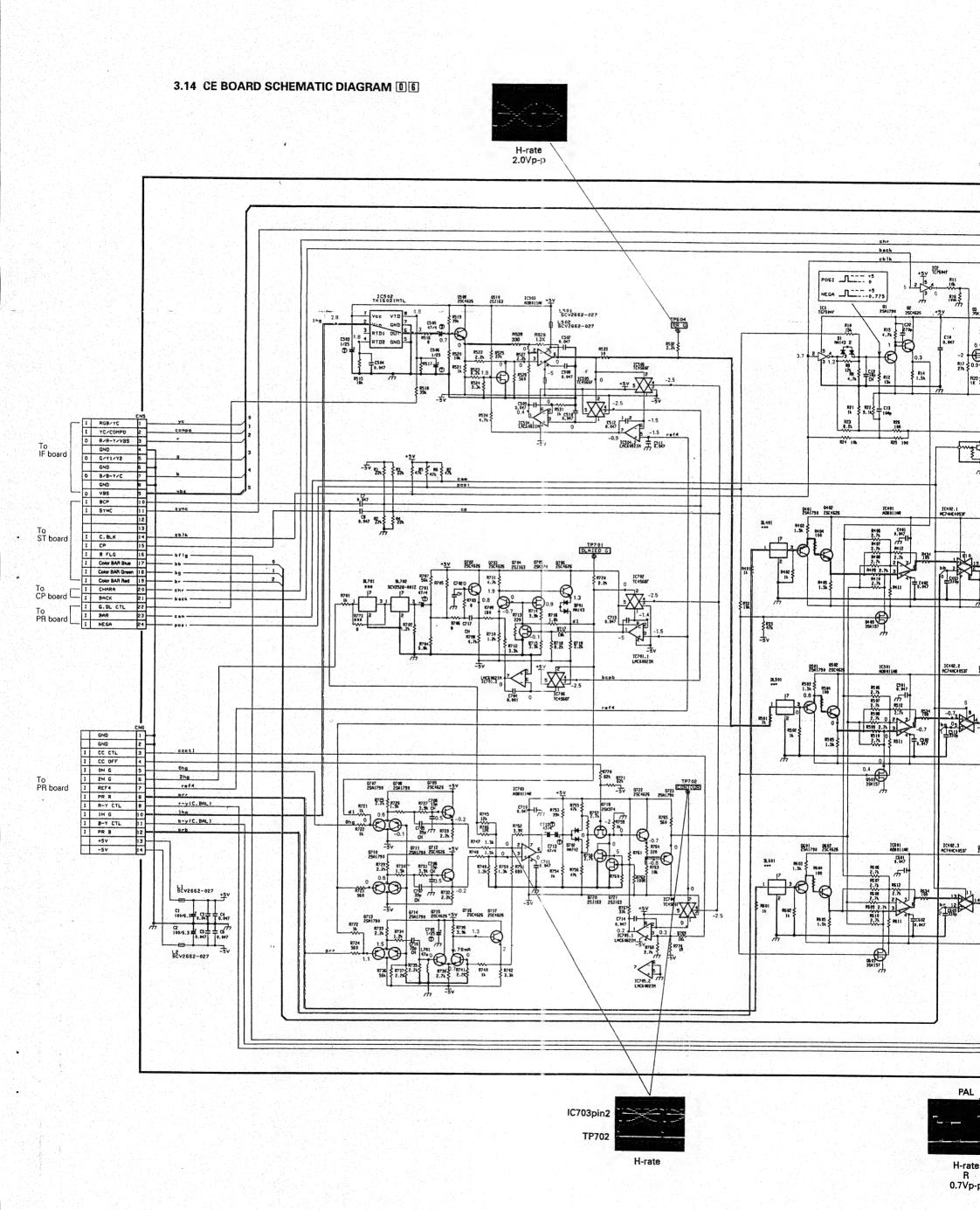
ADDRESS TABLE OF BOARD PARTS

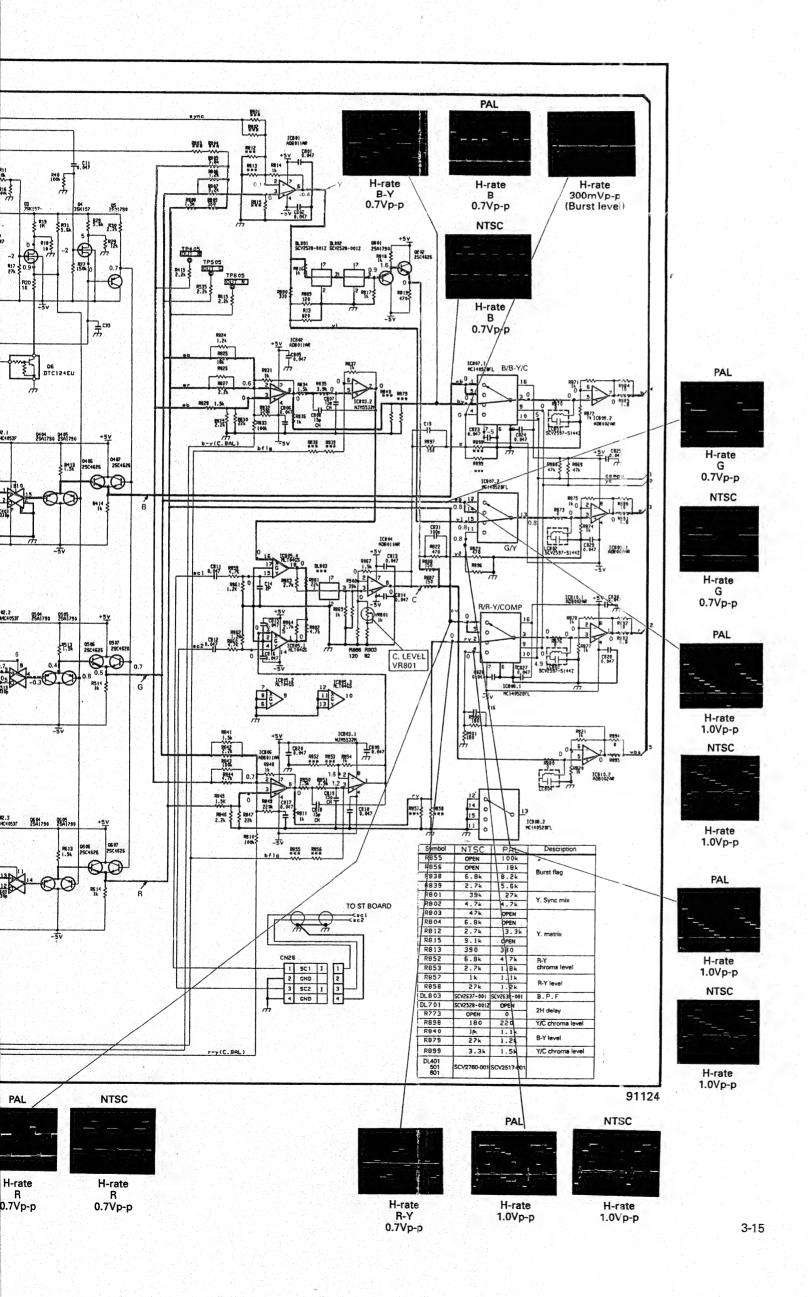
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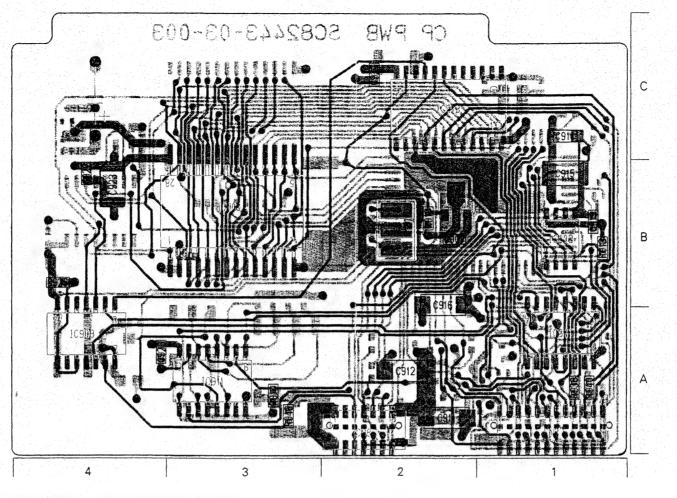
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IC1	A-3A		A-3A	Q716	B-1B	R22	A-4A	R507	A-2A	R607	A-2A	R726	B-1B	R763	B-1C	R825	B-2B	R860	A-3C	R896	A-4C	C505	A-1A	C810	B-2C		
IC2	B-4A	Q403			B-1B	R23	A-4A	R508	B-2A	R608	B-2A	R727	B-1B	R764	B-1C	R826	B-2B	R861	A-3C	R897	A-4C	C506	B-1A	C811	A-3C	TP405	B-3B
IC401	B-3B	Q404	A-3B	Q717			A-4A	R509	A-2A	R609	A-2A	R728	B-1B	R765	B-1C	R827	B-2B	R862	A-3C	R898	A-4C	C507	B-1A	C812	A-3C	TP505	B-2B
IC402	B-2B	Q405	A-3B	Q718	A-1C	R24			B-3A	R610	B-2A	R729	B-1B	R767	B-1C	R828	A-2C	R863	A-3C	R899	A-4C	C508	B-1A	C813	A-4C	TP604	B-1B
IC501	B-2B	Q406	A-3B	Q720	A-1C	R25	A-4A	R510	B-3A B-2A	R611	B-2A	R730	B-1B	R768	B-2C	R829	A-3C	R864	A-3C	R900	B-4B	C509	B-1B	C814	A-3C	TP605	B-2B
IC502	B-1A	Q407	A-3B	Q721	A-1C	R26	A-4A	R511				R731	B-1B	R769	B-1B	R830	A-3B	R865	A-3C	R901	B-4B	C510	A-1B	C815	B-3C	TP701	B-2B
IC503	B-1A	Q501	A-3A	Q722	B-1C	R27	B-4B	R512	A-2B	R612	A-2B		B-1B	R770	B-1C	R831	A-2C	R866	A-3C	R902	A-3C	C511	A-1B	C816	B-3B	TP702	B-2C
IC504	B-1B	Q502	A-2A	Q723	A-1C	R28	A-4B	R513	A-2B	R613	A-2B	R732		R771	B-1C	R832	B-3C	R867	A-4C	R903	B-3B	C512	B-1B	C817	B-2C		
IC505	A-1B	Q503	A-3A	Q801	A-3B	R29	B-4A	R514	Á-3B	R614	A-2B	R733	A-1B	R772	A-1B	R833	A-3B	R868	A-4C	11000		C513	B-3B	C818	A-2C	CN5	A-4A
IC506	A-1B	Q504	A-2B	Q802	B-4B	R30	A-4A	R515	B-1A	R615	B-2B	R734	B-1B	R773	A-2C	R834	A-2C	R869	A-4C	VR801	B-3C	C601	A-2B	C819	B-2C	CN6	A-3A
IC601	B-2B	Q505	A-2B			R31	B-3A	R516	A-1A	R634	B-2B	R735	B-1B	R774	B-2C	R835	A-2C	R870	B-4C	******	2 00	C602	A-2B	C820	A-2C	CN26	A-3C
IC701		Q506	A-2B	D1	B-3A	R32	B-3A	R517	B-1A	R701	A-2B	R736	A-1B		A-3B	R836	A-3C	R871	B-4B	C1	A-4B	C603	B-4A	C823	A-4C		
IC702	A-2B	Q507	A-3B	D701	B-1A	R33	A-3A	R518	B-1A	R702	A-2C	R737	A-1B	R801 R802	A-3B	R837	B-3C	R872	B-4B	C2	A-4B	C701	B-1A	C824	A-4C	LC801	A-4C
IC703	B-1C	Q508	A-1A	D702	B-1C	R40	B-4A	R519	A-1A	R703	A-1A	R738	B-1B		A-3B	R838	A-2C	R873	B-4C	C3	A-4C	C702	A-2A	C825	B-4B	LC802	A-4B
IC704		Q510	A-1A			R401	A-3A	R520	A-1A	R704	B-1A	R739	B-1B	R803	A-3B	R839	A-2C	R874	B-4B	C4	B-4C	C704	B-1A	C826	B-4B	LC803	A-4A
IC705	B-1C	Q601	A-2A	R1	B-3A	R402	B-3A	R521	A-1A	R705	A-1A	R740	B-1B	R804	A-3B	R840	A-3C	R875	B-4B	C5	A-4A	C705	B-2B	C827	B-4B	LC804	A-4A
IC706	A-1B	Q602	A-2A	R2	B-3A	R403	A-3A	R522	A-1A	R706	A-1A	R741	B-1B	R805		R841	B-2B	R876	B-4B	C6	A-4A	C706	A-1B	C828	B-4B		
IC801	B-3B	Q603	A-2A	R3	B-3A	R404	A-3A	R523	A-1A	R707	A-1A	R742	B-1B	R806	A-3B	R842	B-2B	R877	B-4A	C7	B-3A	C707	B-1B	C829	B-4C		- (
IC802	B-2C	Q604	A-2B	R4	B-3A	R405	A-3A	R524	A-1A	R708	B-1A	R745	B-1C	R807	A-3B		B-2B	R878	B-4A	C8	B-3A	C708	A-1B	C830	A-4A		- 1
IC803	B-2C	Q605	A-2B	R5	A-3A	R406	B-3A	R525	A-1A	R709	B-1A	R746	B-1C	R808	A-3B	R843	B-2B	R879	A-3C	C10	A-4A	C709	A-1B	C831	A-4C		- 1
IC804	B-4C	Q606	A-2B	R6	B-4A	R407	A-3A	R526	B-1A	R710	B-1A	R747	B-1C	R809	A-3B	R844	A-2C	R880	A-4B	C11	B-4A	C710	A-1C	0001	71 40	1	1
IC805	B-3C	Q607	A-2B	R7	B-4A	R408	B-3A	R527	B-1A	R711	B-1A	R748	B-1C	R810	A-2B	R845			A-3C	C12	A-3A	C711	A-1C	L1	B-2A		
IC806	B-2C	Q702	A-1A	R8	A-3A	R409	A-3A	R528	A-1A	R712	B-1A	R749	A-1C	R811	A-2C	R846	A-2C	R881	A-3C	C12	A-4A	C712	A-1C	L2	B-2A		1
IC807	B-4C	Q703	B-1A	R9	A-3A	R410	B-3A	R529	A-1A	R713	A-2A	R750	A-1C	R812	B-3B	R847	A-2B	R882			A-3C	C713	A-1C	L501	B-1A		- 1
IC808	B-4B	Q704	A-1A	R10	B-3A	R411	B-3A	R530	A-1A	R714	A-1A	R751	B-1C	R813	B-3B	R848	A-2C	R884		C15	A-3C A-4C	C714	B-1C	L502	B-1A		- 1
IC809	B-4B	Q705	A-1A	R11	B-3A	R412	A-3B	R531	A-1B	R715	A-2A	R752	A-1C	R814	A-3B	R849	B-2C	R885		C16	B-4B	C715	B-2A	L701	A-1B		- 1
IC810	B-4A	Q706	B-1A	R12	A-3A	R413	A-3B	R532	B-1B	R716	B-1A	R753	A-1C	R815	B-3B	R850	A-2C	R886		C32	A-3A	C716	B-1B	Lioi	A 10		l
	1	Q707	A-1B	R13	B-3B	R414	A-3B	R533	A-1B	R717	B-2A	R754	A-1C	R816	A-3B	R851	A-2C	R887	A-4C		A-3A A-4A	C717	A-1A	DL401	B-3A		- 1
Q1	A-3A	Q708	A-2B	R14	A-3A	R415	B-3B	R534	A-2B	R718	B-2A	R755	B-1C	R817	A-4B	R852	B-2C	R888	B-4C	C33	A-4A A-3B	C801	B-4B	DL401	B-2A		i i
Q2	A-3A	Q709	A-2B	R15	A-3A	R434	A-3B	R535	B-2B	R719	B-2A	R756	B-1C	R818	B-4B	R853	B-2C	R889	B-3B	C401	A-3B A-3B	C802	B-3B	DL601	B-2A	1	1
Q3		Q710	A-1B	R16	B-4A	R501	A-2A	R601	B-2A	R720	B-2B	R757	B-1C	R819	B-4B	R854	B-2C	R890	B-4B	C402		C802	A-2C	DL701	A-2C	1	
Q4	B-4A	Q711	A-1B	R17	B-3A	R502	B-3A	R602	B-2A	R721	A-1B	-R758	B-1C	R820	B-4A	R855	A-2C	R891	A-4B	C403	B-2B		B-3C	DL701	A-2C	1	- 1
Q5	A-4A	Q712	A-1B	R18	B-3B	R503	A-2A	R603	A-2A	R722	A-1B		A-1C	R821	B-4A	R856	A-2C	R892	B-4A	C501	A-2B	C806	B-3C	DL702	A-4B		- 1
Q6		Q713	A-1B	R19	B-3A	R504	A-2A	R604	A-2A	R723	A-1B		A-1B	R822	A-4C	R857	A-2C	R893	B-4A	C502	A-3B	C807		DL802	A-4B	1	- 1
Q401		Q714	A-1B	R20	B-3B	R505	A-3A	R605	A-2A	R724	A-1B	R761	A-1C	R823	A-4C	R858	A-2C	R894	B-4A	C503	B-1A	C808	A-2C	DLOUZ	^-4D		

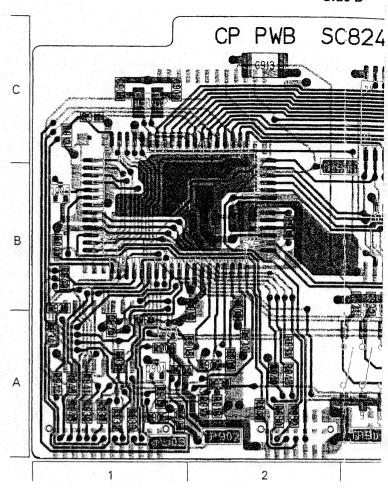








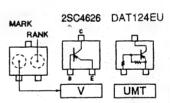


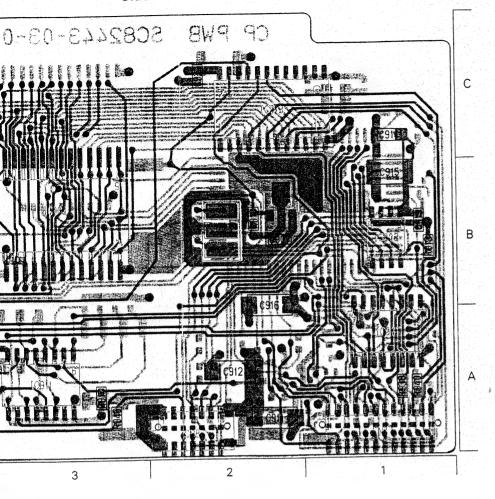


ADDRESS TABLE OF BOARD PARTS

Each address may have an address error by one interval.

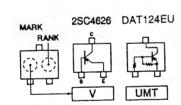
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-	IC901	B-1B	R918	B-2A	VR901	B-4A	S902	B-3A
- 1	IC902	B-3C	R921	B-3B			S903	B-4A
-	IC903	A-1B	R922	B-3B	C901	A-4C		
	IC904	B-4B	R923	B-3B	C902	B-1C	CN7	A-1A
- 1	IC905	B-3B	R924	B-3B	C903	B-1C	CN8	A-2A
-	1C906	A-3B	R925	B-3A	C904	B-1A		
-	IC907	A-1A	R926	B-3A	C905	B-1A	X901	A-2B
	IC908	A-4A	R927	B-3A	C906	B-4A		
١	IC909	B-4C	R928	B-3A	C907	A-2B		
1	IC910	A-2B	R929	B-2A	C911	A-2A		
	IC911	A-3A	R930	B-4B	C912	A-2A		
- 1	IC912	A-2C	R931	B-1A	C913	B-2C		
1			R932	B-1A	C914	A-1C		
- 1	Q901	B-1A	R933	B-1A	C915	A-1B		
	Q902	B-1A	R934	B-1A	C916	A-2B		
- 1	Q903	B-1B	R935	B-1B	C917	B-2A		
-			R936	B-2A	C918	B-3B		
1	D901	B-4C	R937	B-1A	C919	A-1B		
- 1			R938	A-1A	C920	B-4B		
- 1	R901	B-1B	R939	B-1A	C921	B-3B	1 1	
- 1	R902	B-1A	R940	A-1A	C922	A-4B		
1	R903	B-1A	R941	B-1A	C923	A-4B		
- 1	R904	B-1A	R942	B-1B	C924	B-1A		
- 1	R905	B-2A	R943	B-1A	C925	A-4B		
. [R906	B-2A	R944	B-1A	C926	A-4A		
-]	R907	B-2A	R945	B-1A	C927	A-2C	1 12	
	R908	B-2B	R946	A-3A	3			
	R909	B-2B	R947	B-2A	L901	B-1C		
1	R910	A-2B	R948	B-2A				
- 1	R911	B-1C	R949	B-2A	TP901	B-3A		
1	R912	B-1C	R950	B-2A	TP902	B-2A		
1	R913	A-1B	R951	B-2A	TP903	B-1A		
.	R914	A-3A	R952	B-2A	TP904	B-3B	1	
- 1	R915	B-4C	R960	B-1A		_ '		
-	R917	B-2A		12	S901	B-3A	100	

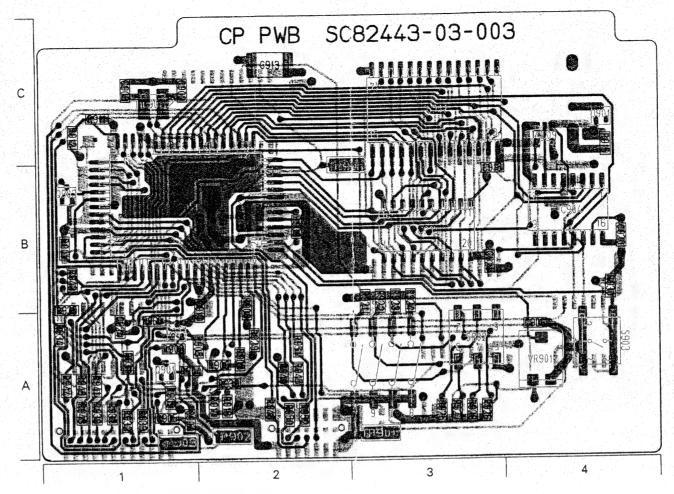




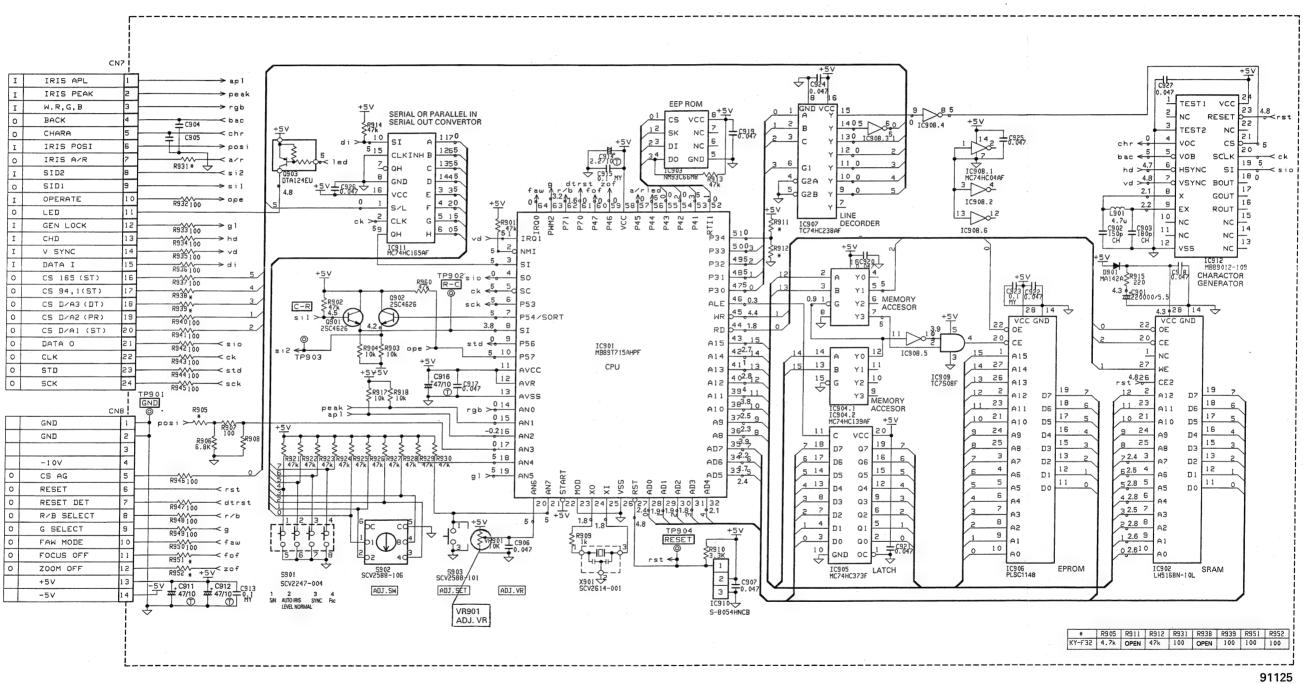
ARD PARTS address error by one interval.

B-4A	\$902 \$903	B-3A B-4A	
A-4C B-1C B-1C	CN7 CN8	A-1A A-2A	
B-1A B-1A B-4A	X901	A-2B	
A-2B A-2A A-2A B-2C A-1C			
A-1B A-2B B-2A B-3B			
A-1B B-4B B-3B A-4B			
A-4B B-1A A-4B A-4A			
A-2C B-1C			
B-3A B-2A B-1A			
B-3B B-3A			

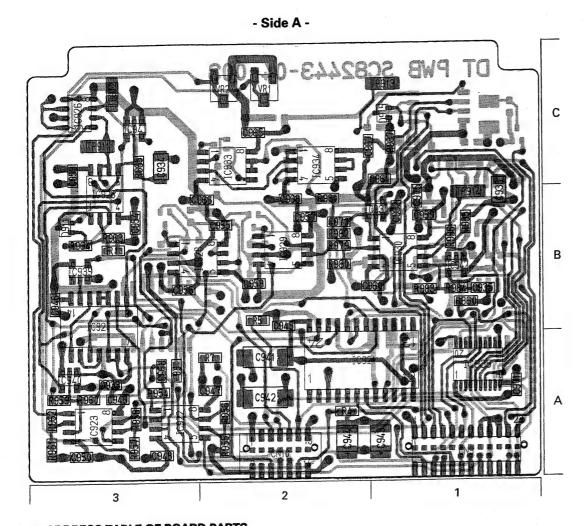




3.16 CP BOARD SCHEMATIC DIAGRAM



3.17 DT CIRCUIT BOARD

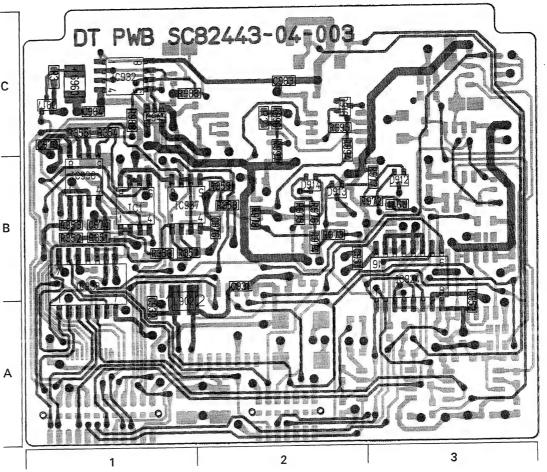


ADDRESS TABLE OF BOARD PARTS

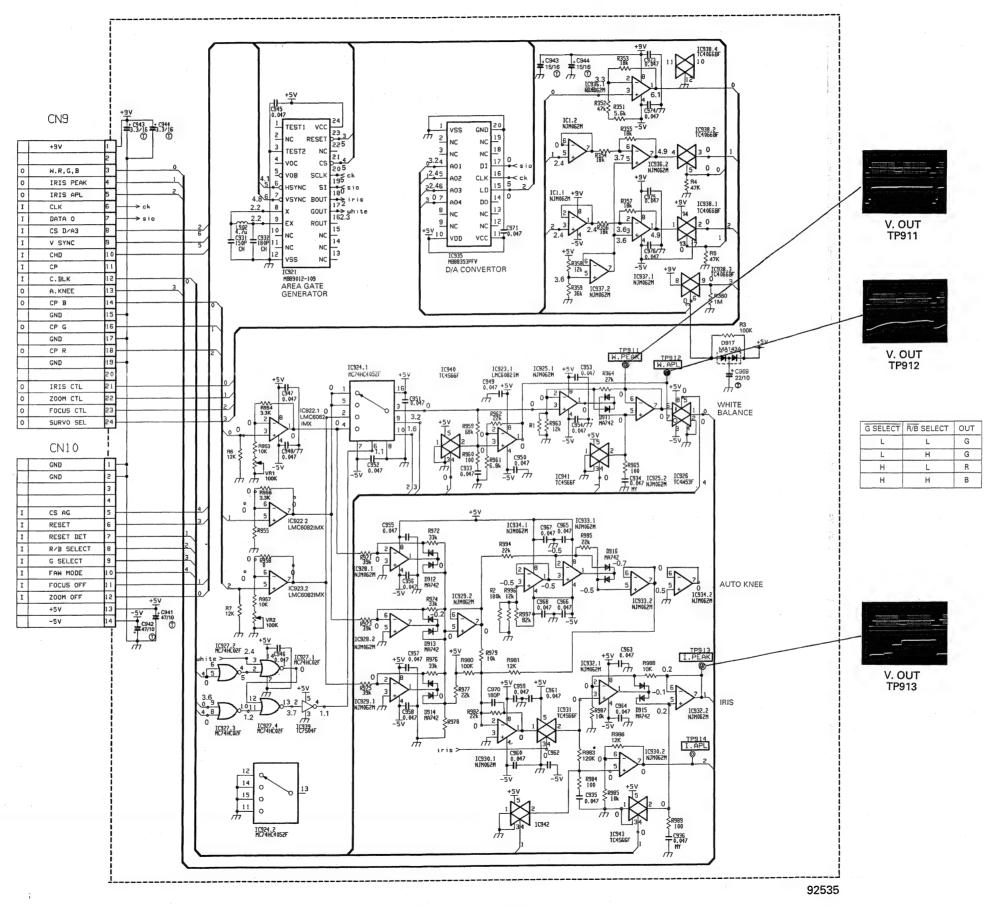
Each address may have an address error by one interval.

IC1														
No. IC1	B-1B	R1	A-3B	R973	B-2B	C942	A-2A	C975	A-1B					
C922					R974	B-2B	C943	A-1A	C976	B-2B				
C323			R3	B-1C	R975	B-2B	C944	A-2A						
C925			R4	A-2A	R976				L902	B-1A				
C926	IC924	B-3B	R5	A-2B	R977									
C927	IC925	A-3B	R6	A-3A										
C928	IC926	A-3C												
C929	IC927													
C930									11914	A-1B				
C931									0110					
C932														
C933									CN10	A-2A				
R358														
Name														
C936 B-1B R950 A-1B R989 B-1C C958 A-2B R950 A-3A R994 B-2E C959 A-1B R951 C938 A-3A R995 B-2C C960 A-2B C939 A-3B R954 A-3A R995 B-2C C960 A-2B C940 A-3A R956 A-2A R996 B-2C C961 A-1C C940 A-3C R957 A-3A R956 A-3A R957 A-3A R958 A-3A C914 A-2C C964 B-1C C963 B-2C C964 B-1C C963 B-2C C965 A-2C C966 A-3B C967 A-2C C967														
C937 B-1B R953 A-3A R994 B-2B C959 A-1B C938 B-1B R955 A-2A R995 B-2C C960 A-2B C939 A-3B R955 A-2A R996 B-2C C961 A-1C C940 A-3A R956 A-2A R997 B-2B C962 A-1B C941 A-3C R957 A-3A C942 A-1B R958 A-3A VR1 A-2C C964 B-1C C943 B-1C R959 A-3A VR2 A-2C C944 B-1C C964 B-1C C945 A-3C C965 A-2C C946 A-3B C931 B-2B C967 A-2C C946 A-3B C931 B-2B C967 A-2C C947 A-2C C968 A-2B C948 A-2C C968 A-2B C949 A-3C C949 A-3C C940 A-3C C940 A-3C C941 A-3C C941 A-3C C942 A-3C C941 A-3C C943 A-3C C941 A-3C C944 A-3C C941 A-3C C945 A-3C C945 A-3C C946 A-3C C945 A-3C C947 A-3C C947 A-3C C948 A-3C C948 C948 A-3C C														
C938														
C939														
C940														
C941														
C942					11337	0 20								
C943 B-1C R959 A-3A VR2 A-2C C965 A-2C C965 A-3C C965 A-2C C966 A-3C C966 A-2C C					VR1	A-2C								
R960 A-3A														
D911	10340	D 10			****									
D912	D911	A-3B			C931	B-2B	C967	A-2C						
D913					C932	B-1A	C968	A-2B						
D914 B-2B R964 A-3B C934 A-3C C970 A-2B D915 A-1C R965 A-3C C935 A-1B C971 A-1A					C933	A-3A				1				
D915 A-1C R965 A-3C C935 A-1B C971 A-1A			R964							- 1				
			R965	A-3C										
	D916	B-2C	R971	B3B	C936	A-1B								
D917 B-1C R972 B-3B C941 A-2A C974 B-1B	D917	B-1C	R972	B-3B	C941	A-2A	C974	B-1B						

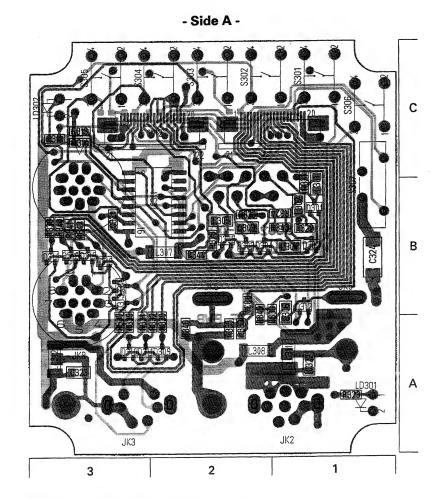
- Side B -



3.18 DT BOARD SCHEMATIC DIAGRAM

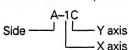


3.19 IF CIRCUIT BOARD



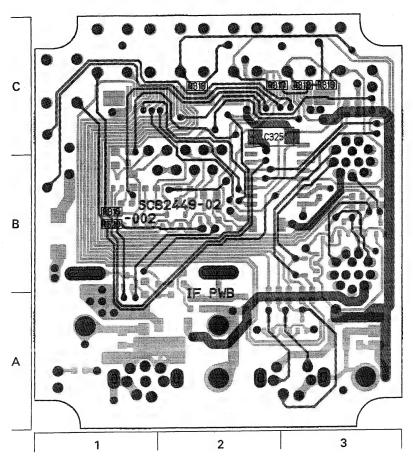
ADDRESS TABLE OF BOARD PARTS

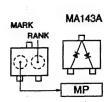
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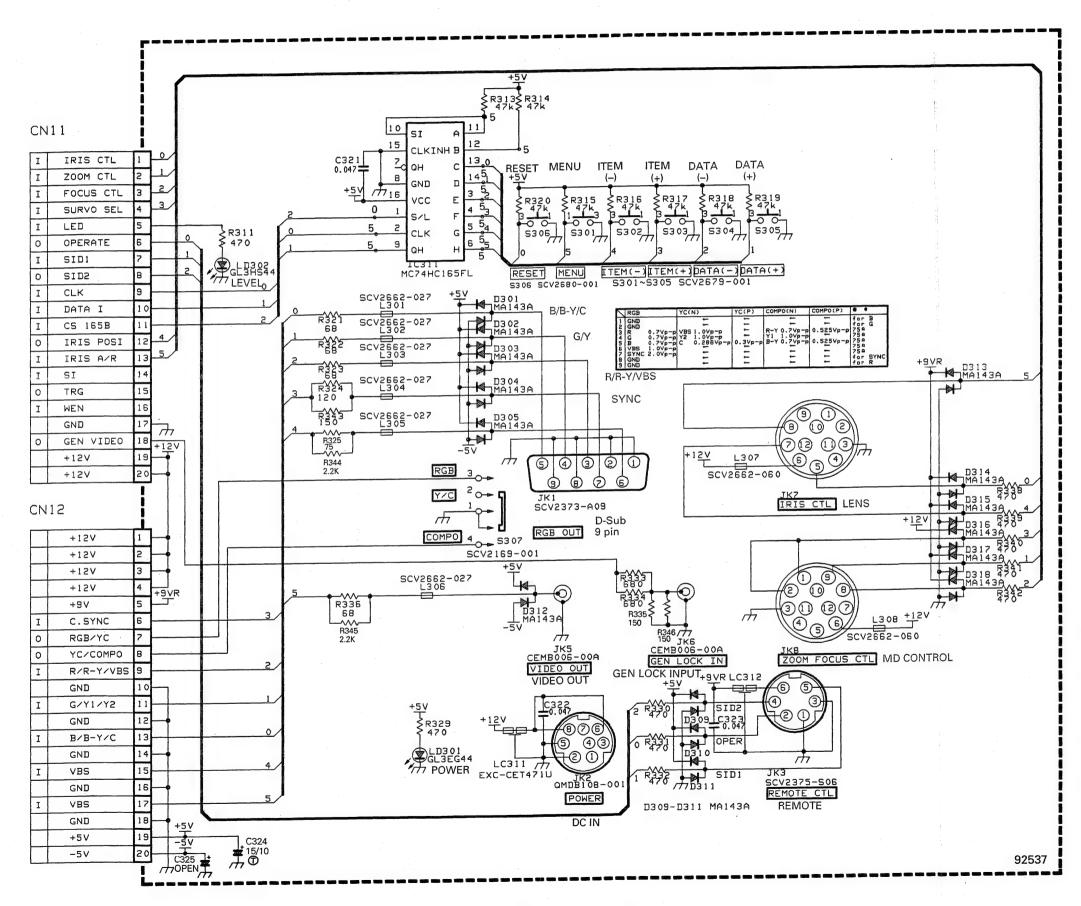


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D301	A-1B	R329	A-1A	L306	A-1B
D302	A-1B	R330	A-2A	L307	A-2B
D303	A-2B	R331	A-3A	L308	A-2A
D304	A-2B	R332	A-3A		
D305	A-2B	R333	A-2A	LC311	A-1A
D309 D310	A-2A A-3A	R334 R335	A-2B A-2A	LC312	A-3A
D310	A-3A	R336	A-2B	LD301	A-1A
D312	A-1B	R337	A-3A	LD302	A-3C
D313	A-3B	R338	A-3B	2002	/ 00
D314	A-3B	R339	A-3A	S301	A-1C
D315	A-3B	R340	A-3B	S302	A-2C
D316	A-3B	R341	A-3B	S303	A-2C
D317	A-3B	R342	A-3B	S304	A-2C
D318	A-3B	R343 R344	A-1B A-2B	S305 S306	A-3C A-1C
R311	A-3C	R345	A-2B	S307	A-1B
R313	A-3C	R346	A-2A	0007	A 10
R314	A-3C			CN11	A-2C
R315	B-1B	C321	A-3B	CN12	A-3C
R316	B-2C	C322	A-1A		
R317	B-3C	C323	A-3A	JK1	A-2B
R318	B-3C B-3C	C324 C325	A-1B	JK2 JK3	A-1A A-3A
R319 R320	B-3C B-1B	U325	B-2C	JK5	A-1B
R321	A-1B	L301	A-1B	JK6	A-2B
R322	A-1B	L302	A-1B	JK7	A-3B
R323	A-2B	L303	A-2B	JK8	A-3B





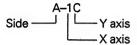




3.21 MT CIRCUIT BOARD

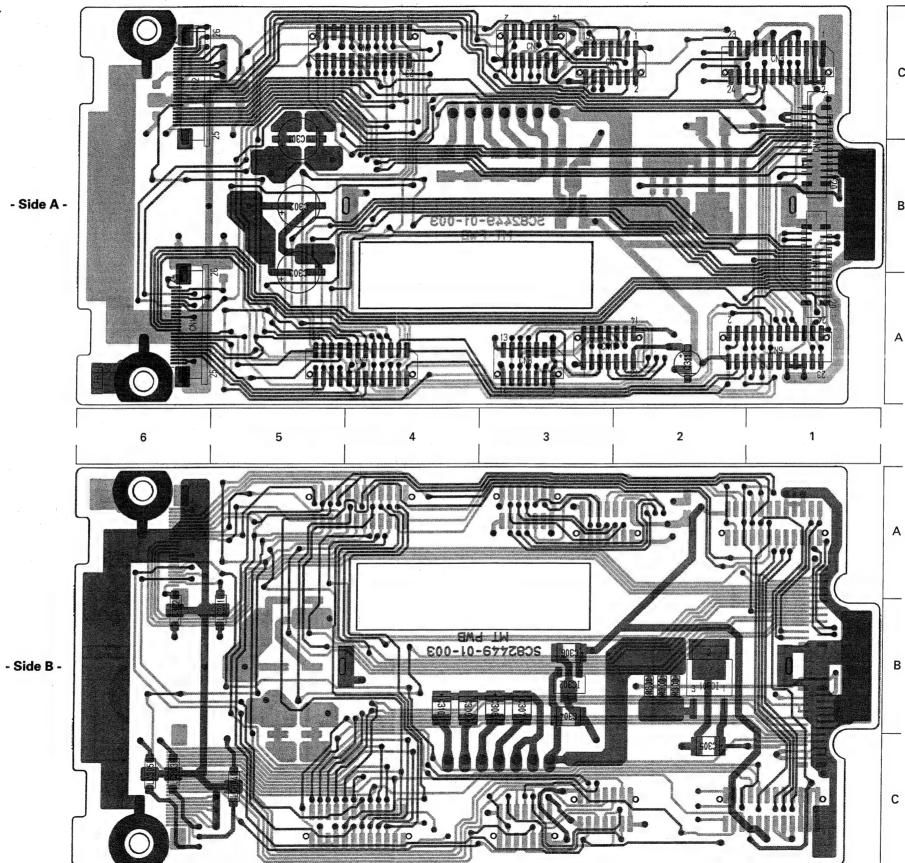
ADDRESS TABLE OF BOARD PARTS

Each address may have an address error by one interval.

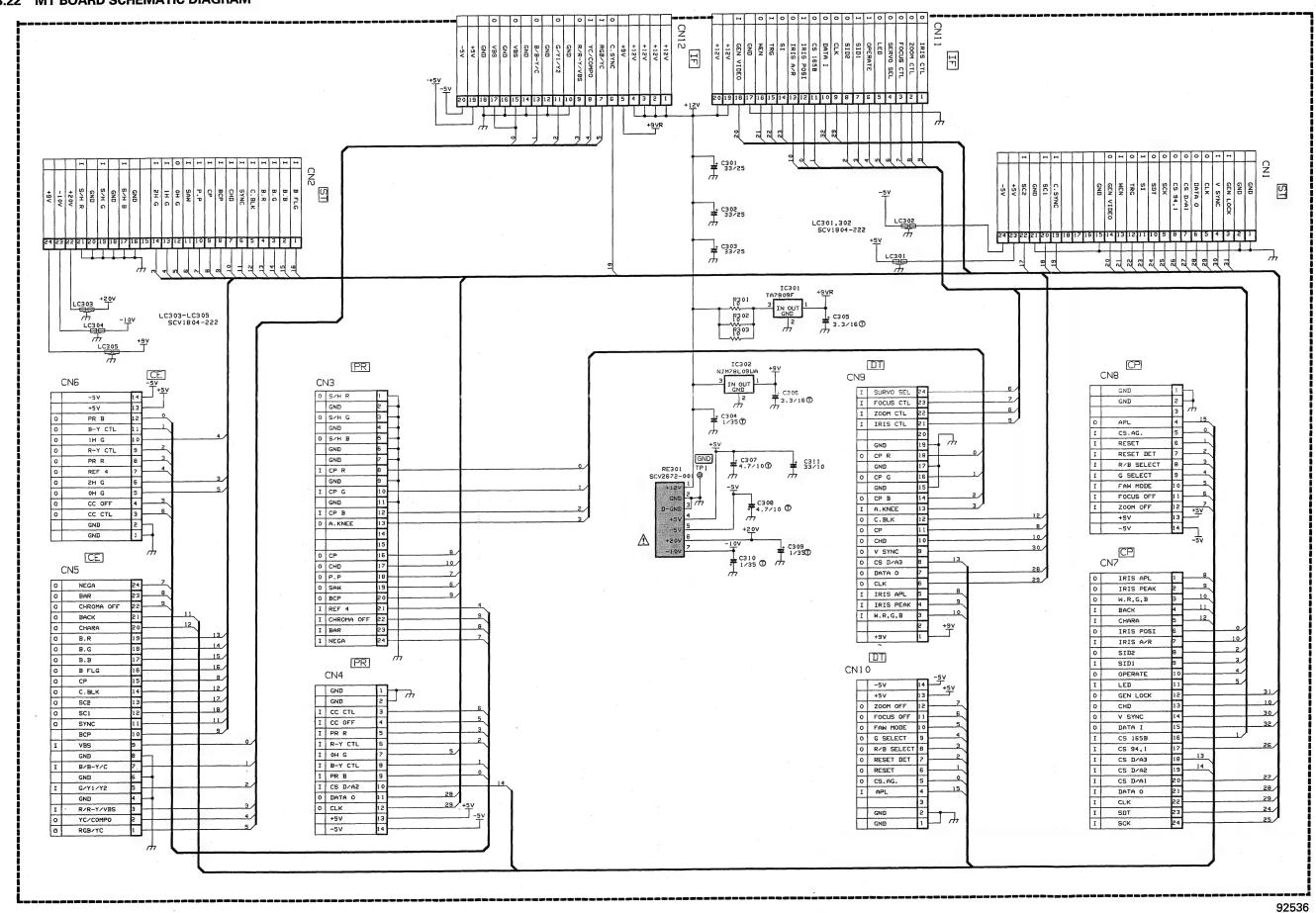


	IC301	B-2B	RE301	A-4B
	IC302	B-3B		
			CN1	A-6A
	R301	B-2B	CN2	A-6C
	R302	B-2B	CN3	A-1C
	R303	B-2B	CN4	A-3C
			CN5	A-4C
	C301	A-5C	CN6	A-3C
	C302	A-5B	CN7	A-4A
	C303	A-5B	CN8	A-3A
	C304	B-3B	CN9	A-1A
	C305	B-2C	CN10	A-3A
	C306	B-3B	CN11	A-1B
	C307	B-3B	CN12	A-1B
	C308	B-3B	CIVIZ	A-1D
	C309	B-4B	LC301	D 50
-				B-5B
i	C310	B-4B	LC302	B-6B
	C311	A-2A	LC303	B-6C
			LC304	B-5C
1	TP1	A-6A	LC305	B-6C

- Side A -

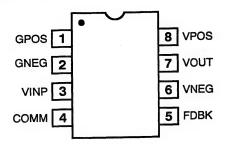


3.22 MT BOARD SCHEMATIC DIAGRAM



3.23 IC BLOCK DIAGRAM

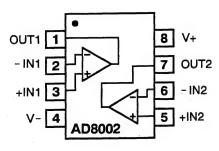
AD603AR [ANALOG DEVICES] (Variable Gain CTL Amplifire)



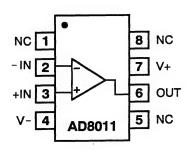
Pin funoction

Pin No.		Pin Name
1	GPOS	Gain CTL Input "HI"
2	GNEG	Gain CTL Input "LOW"
3	VINP	Amp. Input
4	COMM	GND
5	FDBK	Feedback
6	VNEG	Vss
7	VOUT	Output
8	VPOS	Vpo

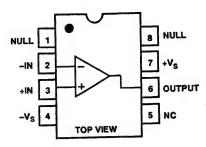
AD8002AR [ANALOG DEVICES] (Dual Current Feedback Amplifire)



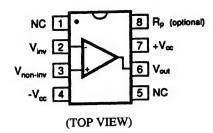
AD8011AR [ANALOG DEVICES] (Current Feedback Amplifire)



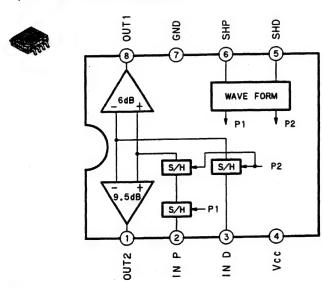
AD817AR [ANALOG DEVICES] (Hi-Speed Low Power Op.Amp)



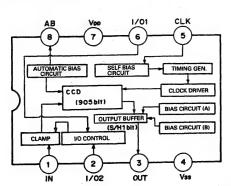
CLC425AJE-T2 [COMLINEAR]
(Low Noise Wide Band Current Feedback
Operational Amplifier)



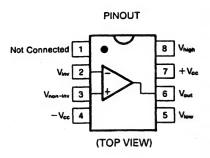
CXA1439M [SONY] (Correlated Double Sampling)



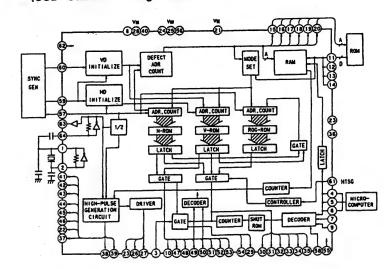
CXL5504M [SONY] (CMOS-CCD 1H Delayline For NTSC)



CLC501AJE [COMLINEAR]
(Current Feedback Operational Amplifier with High Speed Output Clamp)



CXD1265R [SONY] (CCD Camera Timing Generator)



Pin Description

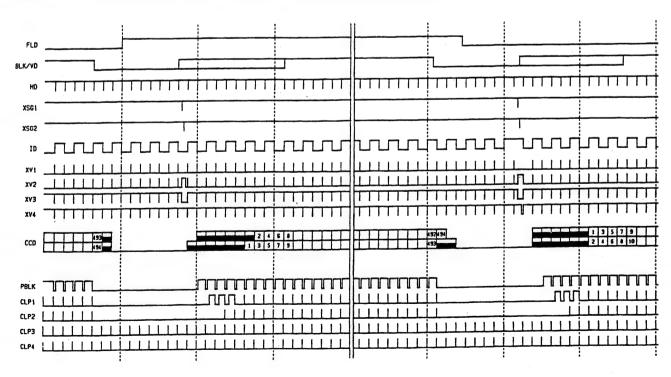
Pin No.	Symbol	1/0	Description
1	osco	0	Inverter output for oscillation.
2	OSCI	ı	Inverter input for oscillation.
3	EF	1	Input mode select for defect compensation data. (With pull-up resistance) High: External ROM used, Low: Serial input from microcomputer
4	ED0	1	Shutter speed setting. Strobe input for serial mode. (With pull-up resistance)
5	ED1	1	Shutter speed setting. Clock input for serial mode. (With pull-up resistance)
6	ED2	1	Shutter speed setting. Data input for serial mode. (With pull-up resistance)
7	SMD1	1	Shutter mode setting. (With pull-up resistance)
8	Vss	-	GND
9	SMD2	1	Shutter mode setting. (With pull-up resistance)
10	XVCT	0	External ROM power supply control.
11	Dí	1	When using external ROM, data input. (With pull-down resistance) When not using, Low: No defect compensation; High: Defect compensation enabled.
12	D2	1	When using external ROM, data input. (With pull-down resistance) When not using, Low: Color, High: Black-and-white.
13	D3	. 1	When using external ROM, data input. (With pull-down resistance) When not using, fixed at Low.
14	D4	ı	When using external ROM, data input. (With pull-down resistance) When not using, Low: NTSC; High: PAL.
15	A5	0	External ROM address output.
16	A4	0	External ROM address output.
17	A3	0	External ROM address output.
18	AO	0	External ROM address output.
19	A1	0	External ROM address output.
20	A2	0	External ROM address output.
21	VEE	T -	GND
22	RG	0	Reset gate pulse output.
23	LH1	-	CCD horizontal register final-step clock output.
24	VDD	_	Power supply.
25	VDD	-	Power supply for H1 and H2.
28	H1	0	Clock output for CCD horizontal register.
27	H2	0	Clock output for CCD horizontal register.
28	Vss	_	GND for H1 and H2.
29	XSUB	0	CCD discharge pulse output.
30	XV2	0	Clock output for CCD vertical register.
31	XV1	0	Clock output for CCD vertical register.
32	XSG1	0	CCD sensor charge readout pulse output.
33	XV3	0	Clock output for CCD vertical register.
34	XSG2	0	CCD sensor charge readout pulse output.
35	XV4	0	Clock output for CCD vertical register.
38	TEST2	1	Test input. Set Low in normal operation.
37	CLD	0	4 fsc clock output.
38	XSHP	0	Pulse for sample-and-hold of pre-charge level.
39	XSHD	0	Data sample-and-hold pulse.
40	Vss	+	GND

3-24

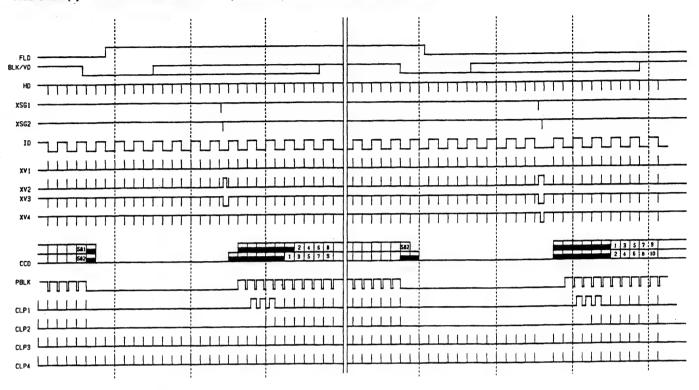
Pin Description

Pin No.	Symbol	1/0	Description
41	XSP1	0	Color separation sample-and-hold pulse. Halted for black-and-white mode.
42	XSP2	0	Color separation sample-and-hold pulse. Halted for black-and-white mode.
43	XSH1/ SHP	0.	Switching sample-and-hold pulse/pre-charge level sample-and-hold pulse (black-and-white mode)
44	XSH2/ SHD	0	Switching sample-and-hold pulse/data sample-and-hold pulse (black-and-white mode)
45	XDL1	0	Delay line clock output. Halted for black-and-white mode.
46	XDL2	0	Delay line clock output. Halted for black-and-white mode.
47	BFG	0	Pulse output for chroma modulator in encoder. When GM is set at High, defect indicator pulse output. Halted for black-and-white mode.
48	CLP1	0	Clamp pulse output.
49	CLP2	10	Clamp pulse output. When GM is set at High, standby mode switching input.
50	CLP3	10	Clamp pulse output. When GM is set at High, standby mode switching input.
51	CLP4	0	Clamp pulse output.
52	PBLK	0	Blanking cleaning pulse output.
53	ID	0	Line identification output. Halted for black-and-white mode.
54	WEN	0	Write enable output for low-speed shutter operation.
55	GM	i	Low: Analog signal processing; High: Digital signal processing. (With pull-down resistance)
56	VDD	_	Power supply.
57	CL	0	4 fsc clock output.
58	PS	ı	Switching for electronic shutter speed input method. (With pull-up resistance)Low: Serial input; High: Parallel input
59	HD	1	Horizontal synchronizing signal input.
60	VD	1	Vertical synchronizing signal input. (Low period is 9H for NTSC/EIA and 7.5H for PAL/CCIR
61	HTSG	1	Control input for XSG1and XSG2. (With pull-up resistance) Low: XSG1, XSG2 halted; High: XSG1, XSG2 generated.
62	TEST	1	Test input. Set at Low during normal operation. (With pull-down resistance)
63	XCK	0	8 fsc clock output.
64	· CK	1	8 fsc clock input

Time Chart (1) < NTSC vertical direction > (However, ID halted for black-and-white mode)



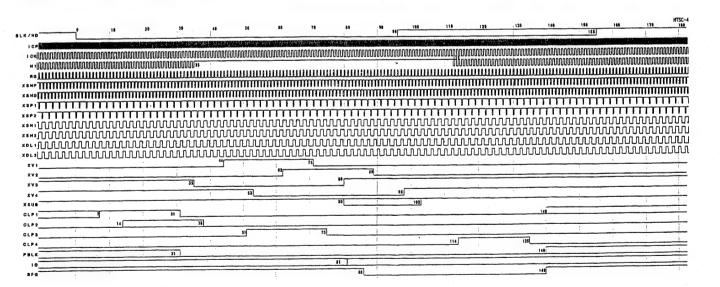
Time Chart (2) < PAL vertical direction > (However, ID halted for black-and-white mode)

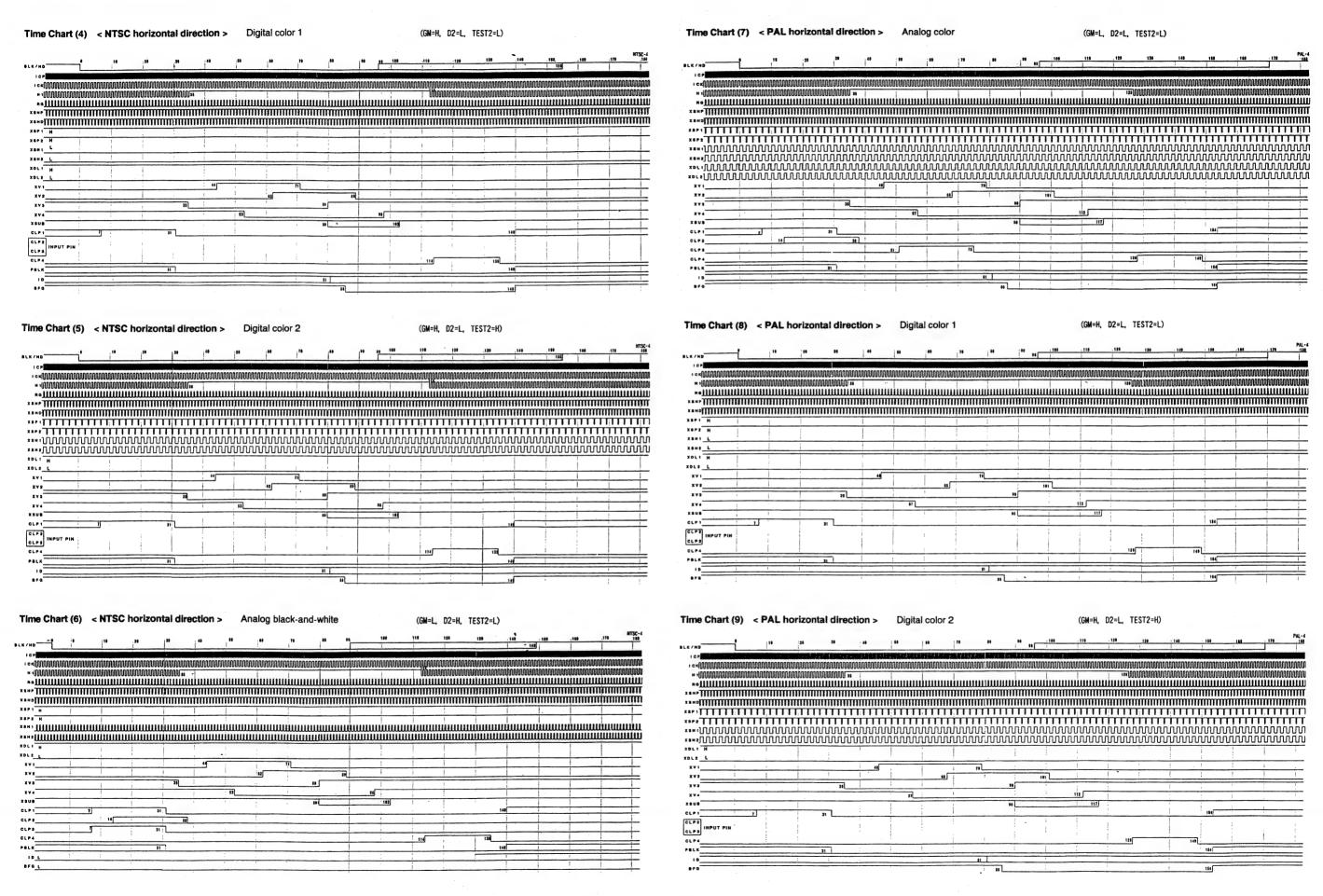


Time Chart (3) < NTSC horizontal direction > An



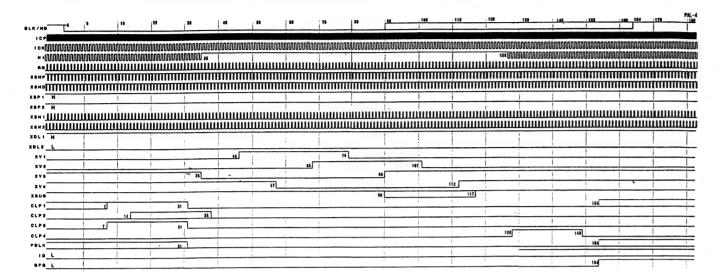
(GM=L, D2=L, TEST2=L)



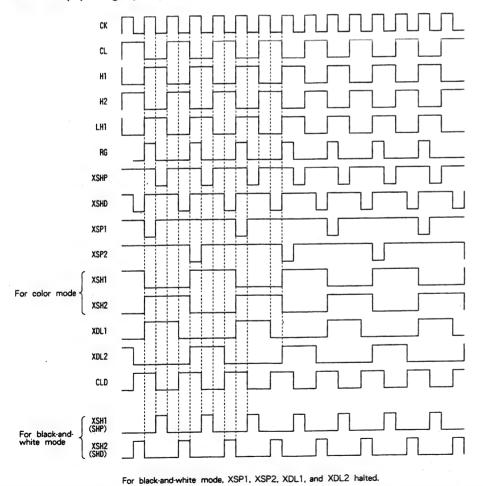


Time Chart (10) < PAL horizontal direction > Analog black-and-white

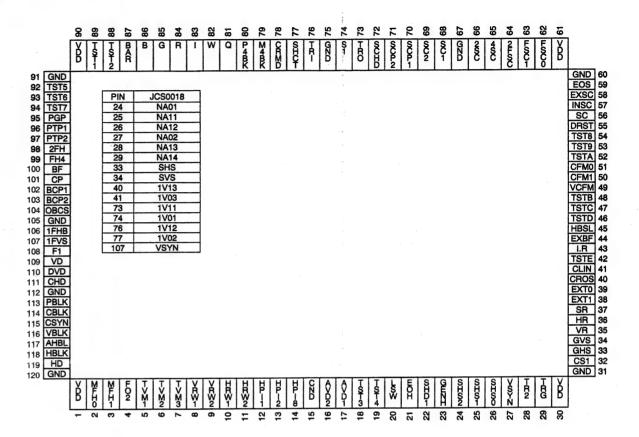
(GM=L, D2=H, TEST2=L)

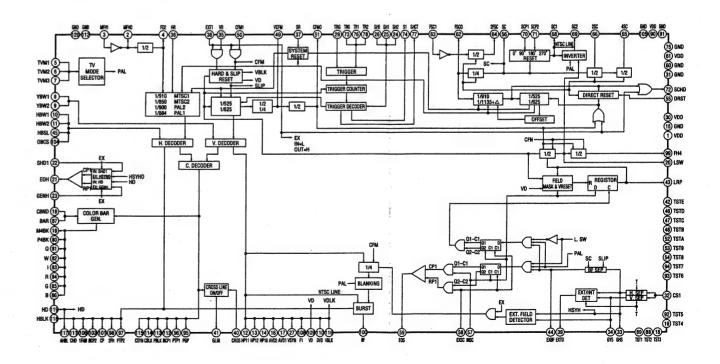


Time Chart (11) < High speed phase >



JCS0027 [JVC] (SSG)





Ter	minal Sp	ecifications of JCS0023 (4th Revision)	Pin No.		Function
_		Pin No.	12	HP11	H. pulse 11
l	F	Pin Name			H. pulse to be active at 11H, 13H, 15H
					and 17H.
2	osco	Oscillation Output	10		
			13	HP12	H. pulse 12
Ш					H. pulse to be active at 12H and 14H.
		Type of Buffer			0 9
		SU : Schmitt PU : Pull-up PD : Pull-down	14	HP18	H. pulse 18
		TR : Tri-state BI : Bi-directional Number : Output current (mA)			H. pulse to be active at 18H.
	L	Input/Output			0 9
		Polarity	15	GND	Ground
				GIVE	Ground
Pin		Function	16	AVD2	Pre-vertical drive pulse 2
No.	VDD VDD	+5 Power supply	-{		Vertical drive pulse whose phase is 8H
<u> </u>	-		\parallel		ahead of VD pulse.
2	MFHC	-,		176	Functions as subcarrier blanking for SECAM system.
		Output terminal for built-in oscillator		<u> </u>	0 9
3	MFHI	Synchronizing oscillation input	17	AVD1	Pre-vertical drive pulse 1
		Input terminal for built-in oscillator			Vertical drive pulse whose phase is 1H
	' '		-		ahead of VD pulse.
4	F02	1/2 divided output			0 9
		1/2 divided output of synchronizing oscillator	18	TST3	Test terminal 3
5	TVM1	TV mode 1	11		Set this terminal open in general.
					I PU
	-	I PU NTSC1 NTSC2 PAL2 PAL1 PALM SECAM	19	TST4	Test terminal 4
		1820FH 1716FH 1816FH 1728FH 1716FH 1716FH			Set this terminal open in general.
6	TVM2	TV mode 2			I PU
		TVM2 L L H H L L	20	LSW	Line switch
		PU			Half-divided FH output. Switches color difference signal of neigh-
7	TVM3	TV mode 3			boring lines by 180° in phase for PAL
				П	o 9 system.
		I PU	21	EOH	H. synchronizing digital phase comparison output
8	VBW1	V. blanking control 1			As compared with leading edge of SHDI;
		VBW1			when internal HD has advanced phase: Low level.
	_	lizzot laur laur laur laur			when internal HD has lagged phase: High level,
		NTSC 2 21H 20H 19H 18H		_	when internal HD is in-phase: High impedance.
9	VBW2	V. blanking control 2 PAL1 26H 25H 24H 23H			O TR 13
		PAL2 26H 25H 24H 23H	22	SHDI	H. synchronizing digital phase comparison input (trailing detection)
	_	PALM 21H 20H 19H 18H SECAM 26H 25H 24H 23H			Input of horizontal drive signal originating
		I PU SECAM ZOTI ZOTI ZOTI		ĺ	from subcarrier.
10	HBW1	H. blanking control 1			Active when EXTI is low level. When this is inactive, GHS (No. 33) is internally con-
		HBW1		_	I SH PU
	—	NTSC1 157T 156T 154T 152T	122	CENIL	
	L	NTSC2 143T 147T 146T 152T	23		H. synchronizing digital phase comparison input (trailing detection)
11	HBW2	H. blanking control 2 PAL1 162T 159T 156T 153T			Input for external synchronization, hori-
		PAL2 170T 167T 164T 161T PALM 148T 147T 146T 144T			zontal synchronization and phase adjust- ment. Active when EXTI is high level.
	_	SECAM 162T 150T 156T 152T		¬	When this is inactive, HD (No. 119) is
		I PU		-	I SH PU internally connected.

Pin No.	Pin Name							Pin Name	Function
24	SHS2	Shutter speed setting 2	2				No. 35	VR	Vertical reset
		Random shutter setting function (Refer to the specifications.)	SHS2 SHS	1 SHS0	Shutte	r speed			External synchronizing input by slip system. If this system is input in vertical sync. period, hard reset is activated. Input
	_	I PU	L L	L	1/60	1/50		<u></u>	in other period stops internal counter for a period of pulse width.
25	SHS1	Shutter speed	LL	Н	1/100	1/120	36	HR	Horizontal reset
		setting 1 Random shutter	LH	L	1/2	250			Presets horizontal component 1T before
		setting function (Refer to the specifications.)	L H	H	1/5	000			rise of HD. Jitters in a period shorter than 140 ns are absorbed. However, operation is not secured for continuous input.
		I PU		Н.		2000			I PU IS NOT Secured for continuous input.
26	SHS0	Shutter speed					37	SR	System reset
		setting 0 Random shutter	н н	L	1/4	1000			Inside of IC is forcibly initialized regardless of internal or external synchronization.
		setting function (Refer to the specifications.)	н	Н	1/1	0000			VR and HR inputs are ineffective. Jitters in a period shorter than 140 ns are absorb-
		I PU						7_	I PU ed.
27	VSYN	V. sync. output		-			38	EXTI	Internal/External synchronization setting input
		Vertical sy pulse width		g signa	al of \	/. EQ			L : Internal synchronization
		0 9						_	H : External synchronization
28	TR2	Sync. reset mode settir)O				39	EXTO	Internal/External synchronization setting output
		For sync. r	eset mode						L: Without CSI input After detection of no SHS, another SHS is not detected for a period of 8 fields.
		I PU							H: With CSI input After detection of SHS, 200 or more
29	TRG	Trigger input							SHS's are detected in 1 vertical period.
		Trigger inpo setting fun					40	CROS	Cross ON/OFF input
		shutter spe							L: To stop cross output H: To activate cross output operation
30	VDD	+5V power supply							For detail, refer to supplementary specifications of respective terminals.
							41	CLIN	Cross output
31	GND	Ground	-					-	To output a cross in the center of screen. For detail, refer to supplementary specifi-
32	CSI	Ext. composite sync. sig	gnal input						cations of respective terminals.
		To input ext	ternal comi	osite s	ynchro	nizina	42	TSTE	Test terminal E
		signal for h	norizontal a	and ver	tical se	epara-	"-		
	丁	tion and ext	. sync. sigr	nal inpu	t detec	tion.		_	Set this terminal open in general.
33	GHS	Horizontal separate syn	c.				43	LR	Line reset
	-	Horizontal composite s alent pulse i	ynchronizi	ng sign					When EXTI is external synchronization (High level), setting signal is supplied to LSW. When internal burst is ahead of external burst in phase, High level is out-
	T	alent pulse is not included.			r.	put.			
34	GVS	Vertical separate sync.						:	When internal burst is behind external burst in phase, Low level is output (for 6 clocks of SC).
	-	Vertical separate signal of external composite synchronizing signal. 1/2 equivalent pulse is not included.				Phase comparison is not operated for one field after output. For detail, refer to supplementary specifi-			
	-		uise is not included.					cations of respective terminals	
		0 9							0 9 Cations of respective terminals.

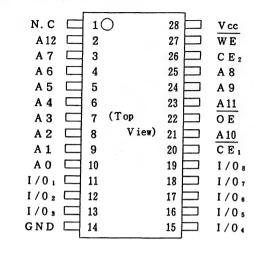
Pin No.	Pin Name	Function	Pin No.	Pin Name	Function
44	EXBF	Brust flag separate output With detection of one or more H. sync pulse from CSI input, pulse whose width is for 6 cycles of subcarrier is output. For details, refer to supplementary specifi-	54	TST8	Test terminal 8 Set this terminal open in general.
	7	0 9 cations of respective terminals.			I PU
45	HBSL	H. blanking reset To switch output position of IFHB (106). L: System delay 900 ns approx. H: System delay 450 ns approx.	55	DRST	Direct reset terminal When EXTI is low level, the following operations are realized. To switch reset operation of horizontal counter for subcarrier.
46	TSTD	Test terminal D Set this terminal open in general.			To reset color frame synchronizing with horizontal counter with High level; To reset color frame with Low level.
		BI PU 9			I PU
47	TSTC	Test terminal C Set this terminal open in general.	56	SC	Subcarrier output To monitor subcarrier signal connected internally with digital phase comparator. When phase of SC1 (68) is 0°, this output
		BI PU 9			is inphase.
48	TSTB	Test terminal B Set this terminal open in general.	57	INSC	Internal subcarrier input Shall be connected with SC (56). Effective when EXBF is low level.
		I PU			Pulse rise is detected.
49	VCFM	VTR color frame	58	EXSC	External subcarrier input
		Color frame for VTR exclusively. 2-field period for NTSC1, NTSC2 and PAL. 4-field period for PAL1, PAL2 and SECAM.			Effective when EXBF is low level. Pulse rise is detected.
		0 9	59	EOS	Digital phase comparison output for subcarrier
50	CFMI	Color frame input Effective with EXTI being low level. Used for color frame control in external synchronization. Reset to synchronizing circuit by the slip system.			As compared with leading edge of EXSC; when internal SC has advanced phase: Low level, when internal SC has lagged phase: High level, when internal SC is in phase: High impedance.
51	CFMO	Color frame output Pulse output at the beginning of every color frame. 4-field period for NTSC1 and NTSC2.	60	GND	0 TR 13 Ground
	·	8-field period for PAL1, PAL2, PALM and SECAM.	61	VDD	+5V power supply
52	TSTA	Test terminal A			
		Set this terminal open in general.	62	FSCO	Oscillator output for subcarrier
		I PU	63	FSCI	Oscillator input for subcarrier
53	TST9	Test terminal 9	64	2FSC	Double subcarrier output
		Set this terminal open in general.	64		Half-divided oscillator output for subcarrier
		I PU			0 13

Pin	Pin			Fund	tion		Pin	Pin Pin Function							
No. 65	Name 4SC	1/4 subcarrier	output				75	GND	Ground						
				Louto	ut of si	bcarrier frequency			,						
	П	0 9 1	/4-divided	Outp	ut or st	ibcamer frequency	76	TR1	Random reset system setting input						
66	2SC	1/2 subcarrier	output											n setti	ng sys-
						harrier fraguesia				m. : SYNC	reset	svste	m, H: S	YNC no	n-reset
	П	0 9 1	/2-aiviaea	outp	ut or st	bcarrier frequency			system. (Refer to the specifications of rar shutter setting function.)						
67	GND	Ground					3							undom	
									1 PD						
68	SC1	Subcarrier 1					77	SHCT	Shutter contr	ol outpu	it				
			ubcarrier							lectroni					of TG
						CP1 and SCP2. not changed every			()	Shall be connected to SHCT (19) of (µPD9438GK). (Refer to the specifications of random contents of the specifications)					
	П	H O 9 I	l.							hutter s					andom
69	SC2	Subcarrier 2					78	CBMD	SMPTE/FULL	•					
			Subcarrier s 90° ahea			utput whose phase				o switc	h col	or bai			IPTE or
		P	hase is cl	hange	d by So	CP1 and SCP2. s inverted by 180°			l i	: Full Fie I: SMPT	eld mo	de -	B	ffective or AR signal	
-	П		very H.	oae, t	Jnase I	s inverted by 160		_	I PU	I. SIVIF I	EIIIO	76	le	vel.	
70	SCP1	Subcarrier sel	lect 1				79	M4BK	Color bar signal			ı			
			lote: C2 is expre	essed I	based or	n SC1.			Signal		BAR	CBME) 1		W
		SCP2 SCP1 SC1 SC2								NTSC1	H L	X H	L Effective	e Effectiv	L /e (75%W)
	-	I PD						П		NTSC2	Ĺ	Ë	L		L
71	SCP1	Subcarrier	L	Н	90°	90° ahead (0°)		<u></u>	0 9	PAL1	Н	х	L		L
		select 2	Н	 L	180°	90° ahead (90°)	80	P4BK	Color bar signal	PAL2	L	H	Effectiv		ve (75%W) ve (100W)
			н	Н	270°	90° ahead (180°)					Н	X	L	1	
		I PD			270	90 ansau (100)				PALM	L	H	_	e Effectiv	ve (75%W) ve (100W)
72	SCHD	Subcarrier ho	rizontal di	river					0 9			_	+	Litecti	
						e originating from	81	Q	Color bar	SECAM	H	X H	Effective	e Effectiv	/e (75%W)
		s s	ubcarrier	Trequ	ency.				signal		L	L	L		L
	T.	0 13										1			
73	TR0	Random shut	ter contro	ol syst	tem set	tting input						Q	P4BK	M4BK	
						control system.		1	0 9	NTSC	1 5	L	L Effective	L Effective	
		L	: 8-stage	defau	ult cont ontrol	rol, H: Pulse width (Refer to the	82	W	Color bar	NTSC	2	L	L	L	
		continuous control (Refer to the specifications of random shutter setting function.)							signal	PAL1		L	L	L	
										PAL2	11-11	ective L	Effective L	Effective L	
	01	I PD	:						 -		-	L	L		
74	SI	Stroboscope index output						几	0 9	PALA	Eff	- 1	Effective L	Effective L	
		In normal operation, this output is for stroboscopic lamp emitting time.						!	Color bar signal		-				
		. Ir	n random or video o	shutt	er oper	ation, this output is				SECA	M Eff	L ective	L Effective	L Effective	
		- (F	Refer to	the :	specific	cations of random						L	L	L	
	П		hutter se	tting f	unction	i.)		JL	0 9						
	ı — — :						11	1	10121						

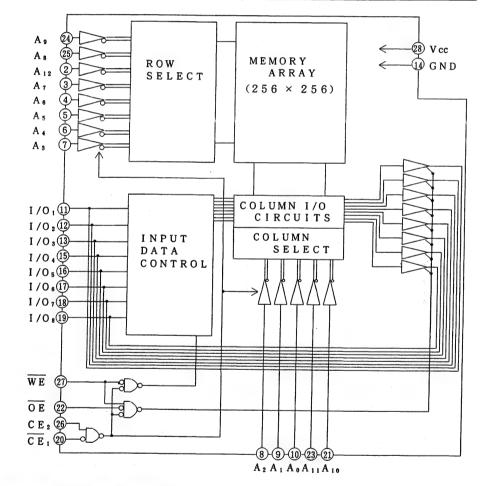
Pin	Pin		Function						Pin No.	Pin Name	Function		
No. 84	Name -R	Color bar							95	PGP	Pilot gate pulse		
	几	signal	NTSC1	BAR H	C3MD	B	G	R		 	Uniform voltage level of two signals, one passes the 1FH delay line and the other does not pass the 1H line, with each other in order to compensate attenuation caused by the delay line.		
85	G	Color bar	NTSC2	L	Х	Effective	Effective	Effective	96	PTP1	O 9 Pilot pulse 1		
		signal	PAL1 PAL2	H L	X	L Effective	L Effective	L Effective			Uniform voltage level of two signals, one passes the 1H delay line and the other does not pass the 1H line, with each		
	几	0 9	PALM	H	X	L Effective	L Effective	L Effective			other in order to compensate attenuation caused by the delay line.		
86	В	Color bar signal	SECAM	H	X	L Effective	L Effective	L Effective	97	PTP2	O 9 Pilot pulse 2		
							L				Used to control video level.		
	几	0 9						-		T.	0 9		
87	BAR	Color bar co	ontrol (O	-					98	2FH	Double FH		
	:	·	BAR	R, G	, B, I, (Q, W, P		4BK			NTSC1 NTSC2 PAL1 PAL2 PALM SECAM		
		I PU	Н		Fixe	d at Lo				П	31.468 31.468 31.25 31.25 31,468 31.25		
88	TST2	Test termin	al 2						99	FH4	1/4FH		
			Set this terminal open in general.							Half-divided output of LSW. Equivalent to 25 Hz in PAL mode.			
89	TST1	Test termin	al 1				<u></u>		100	BF	0 9 Burst flag		
			Set this	termir	nal ope	en in ger	neral.				Regulates period to insert subcarrier into back porch of horizontal sync. signal. Functions to switch chromaticity signal for every line in SECAM mode.		
	_	i PU						<u>.</u>		7	O 9		
90	VDD	+5V power	supply						101	CP	Clamp pulse		
91	GND	Ground	····	_							Signal to clamp reference voltage of black level.		
"	GIVE	diodila								7	0 9		
92	TST5	Test termin	al 5						102	BCP1	Black clamp pulse 1		
			Set this	termir	nal ope	n in ger	neral.				Fixes black level of CCD output signal.		
	_	I PU								Ţ	0 9		
93	TST6	Test termin	al 6						103	BCP2	Black clamp pulse 2		
		Set this terminal open in general.					neral.				Fixes black level of CCD output signal (at every H output).		
		I PU						-		丁	0 9		
94	TST7	Test termin	al 7						104	OBCS	Optical black pulse select		
			Set this	termin	al ope	n in gen	eral.				Switching of output position of horizontal BCP1 and BCP2. L: Frontward output		
		0 9						-		.	I PU H: Backward output		

Pin No.	Pin Name	Function	Pin No.	Pin Name	Function
105	GND	Ground	115	CSYN	Composite sync. Composite synchronizing signal comprising of four signals of HSYN, VSYN, EC
106	IFHB	Interface horizontal blanking		~	and SAW.
		Output pulse that is narrower than HBLK both in leading edge and trailing edge.	116	VBLK	V. blanking
	T	0 9			Vertical blanking signal whose pulse width can be changed with VBW1 and VBW2.
107	IFVS	Interface vertical synchronization		工	0 9
		Normal function: To output vertical syn- chronization signal having the same pulse width of V. EQ pulse. Random shutter setting function: To out- put the same signal as V. sync. signal in	117	AHBL	Pre-horizontal blanking Pulse that HBLK is advanced in breaking of leading edge.
	~	the fall time.		~	
108	FI	Field index	118	HBLK	H. blanking
	-	Field discrimination signal. L: Field that HD and VD fall at the same time.			Horizontal blanking pulse whose pulse width can be changed with HBW1 and HBW2.
		H: Field that there is a time lag of 0.5H in falling between HD and VD.			0 9
109	VD	0 9 Vertical drive pulse	119	HD	H. drive Pulse synchronized with beginning or
		Pulse output at the beginning of every field.			respective lines. Used as horizontal timing standard of the set.
	~	Used as the vertical timing standard for the set.	-	7.	0 13
110	DVD	Delayed vertical drive pulse	120	GND	Ground
		Vertical drive signal that lags behind VD pulse. Controls camera's scanning timing and			
		regulates activation time of sawtooth waveform of vertical deflection circuit.			
		0 9			
111	CHĎ	Delayed horizontal drive pulse Controls camera's scanning timing.			
		Regulates activation time of sawtooth waveform of horizontal deflection circuit.			
	T	0 9			
112	GND	Ground			
113	PBLK	Pre-blanking			
	-J-	Composite blanking signal used for video processing. As compared with CBLK signal, this signal is narrower in the leading edge.			
114		0 9 Composite blanking			
		Horizontal and vertical composite blanking signal.			

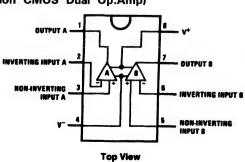
LH5168N-10L [SHARP] (64K SRAM)



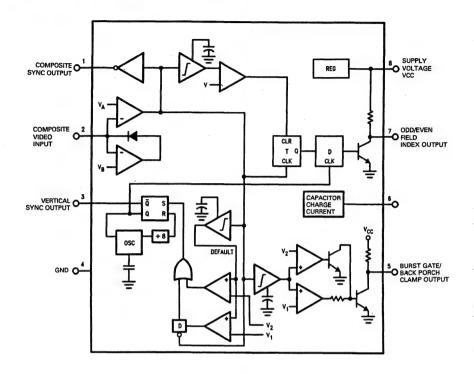
Name	Signal
$A_0 \sim A_{12}$	Address Input
CE ₁ /CE ₂	Chip Enable
WE	Write Enable
ŌE	OUTPUT
$I/0_1 \sim I/0_8$	Data I/O
N.C.	Non Connection

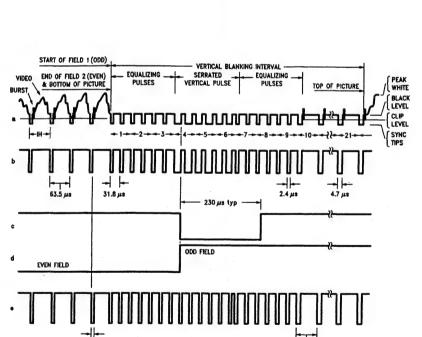


LMC6082IM [National Semiconductor] (Precision CMOS Dual Op.Amp)



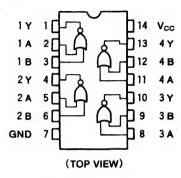
LM1881M [National Semiconductor] (Video Sync Separator)





(a) Composite Video; (b) Composite Sync; (c) Vertical Output Pulse; (d) Odd/Even Field Index; (e) Burst Gate/Back Porch Clamp

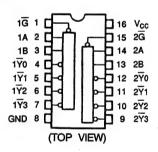
MC74HC02AF [MOTOROLA] (Quad 2-Input NOR Gates)



TRUE Table

Α	В	Υ
L	L	Н
L	Н	L
н	L	L
Н	Н	L

■ MC74HC139AF [MOTOROLA] (Dual 2-Line to 4-Lile Decoders/ Demultiplexers)

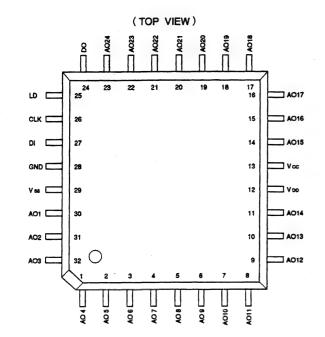


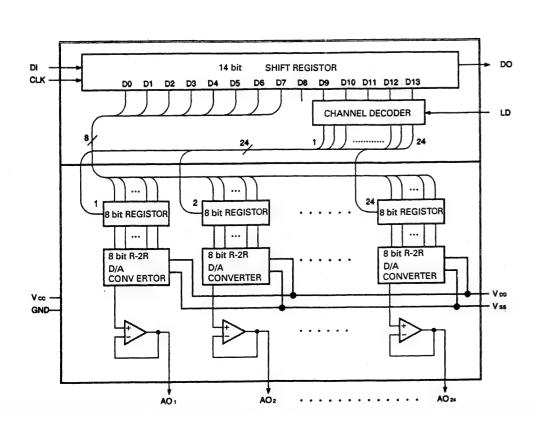
TRUE Table

-	····							
IN	PUT	S		TUC	SELECTER			
ENABLE SELECT			=	Ÿ1			-	
G	В	Α	ŸΟ	YI	Ÿ2	¥3	00.1101	
Н	X	X	н	Н	Н	Н	NONE	
L	د	د	۲	Н	Н	Н	YO	
L	L	H	x	٦	Н	H	<u>Y1</u>	
L	Н	L	Н	Н	L	Н	Y2	
L	Н	н	H	Н	Н	L	Y3	

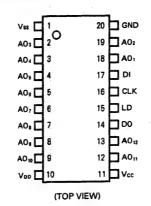
X : Don't care

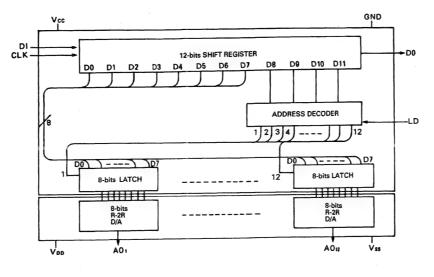
MB88345PF [FUJITSU] (D/A Converter)





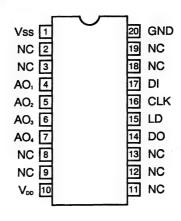
MB88341PV-ER [FUJITSU] (D/A Converter)

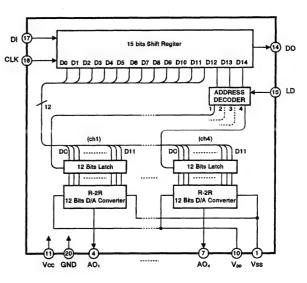




I	0 1-1	Pin No.	1/0	For serial data (12 bits) input. For MSB data output of 12-bit shift register. For shift clock input. Signal from DI pin is input to 12-bit shift register. With "H" input to LD pin, data of 12-bit shift register is loaded to decoder and D/A output register. For 8-bits D/A output. Power source of MCU interface. GND of MCU interface Power source of D/A converter.
	Symbol	MB88341	"	unction
ı	DI	17	ı	For serial data (12 bits) input.
	DO	14	0	For MSB data output of 12-bit shift register.
	CLK	16	1	For shift clock input. Signal from DI pin is input to 12-bit shift register.
	LD	15	1	With "H" input to LD pin, data of 12-bit shift register is loaded to decoder and D/A output register.
	AO1 AO2 AO3 AO4 AO5 AO6 AO7 AO8 AO9 AO10 AO11 AO12	18 19 2 3 4 5 6 7 8 9 12 13	0	For 8-bits D/A output.
ı	Vcc	11	-	Power source of MCU interface.
	GND	20	-	GND of MCU interface
l	VDD	10	_	Power source of D/A converter.
	Vss	1	-	GND of D/A converter.

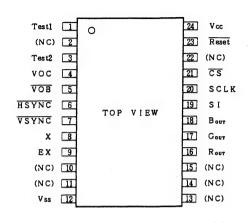
MB88353PFV-ER [FUJITSU] (4 Ch 12 Bit D/A Converter)

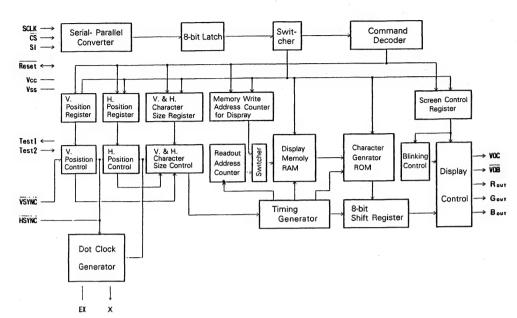




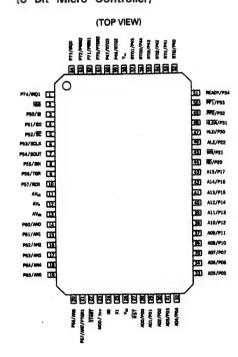
Symbol	Pin No. MB88341	1/0	Description
DI	17		For serial data (15-bit) input.
DO	14	0	For MSB data output of 15-bit shift register.
CLK	16	1	For shift clock input. Signal from DI pin is input to 15-bit shift register.
LD	15	ı	With "H" input to LD pin, data of 15-bit shift register is loaded to decoder and D/A output register.
AO1 AO2 AO3 AO4	4 5 6 7	0	For 12-bits D/A output.
Vcc	11	_	Power source of MCU interface.
GND	20		GND of MCU interface.
VDD	10	_	Power source of D/A converter.
Vss	1	_	GND of D/A converter.

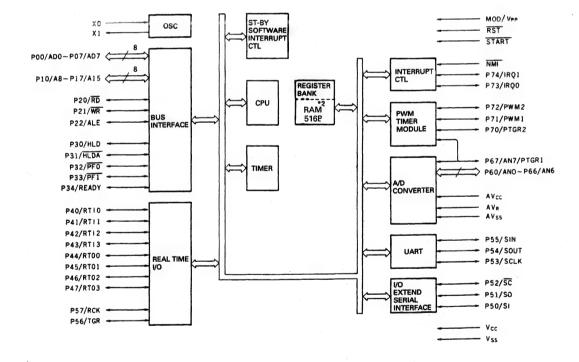
MB89012-109 [FUJITSU] (TV Display Controler)



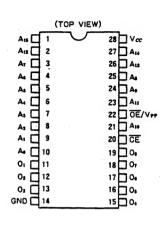


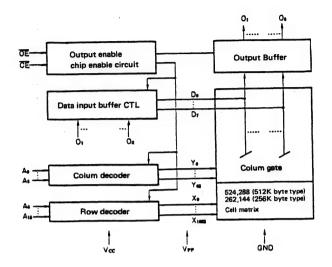
MB89T715AHPF [MOTOROLA] (8 Bit Micro Controller)



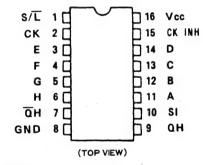


MBM27C512P-15 [FUJITSU] (512K (64K×8Bit) EPROM)

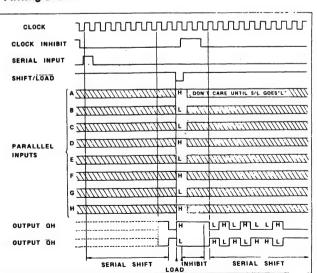




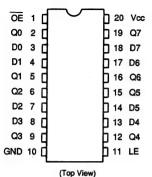
MC74HC165F [MOTOROLA] (8-Bit Serial or Parallel-In/Serial Out Shift Registers With Complementary Out)



Timing chart



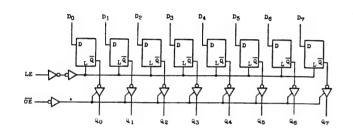
MC74HC373AF [MOTOROLA] (Octal D-Type Latch With NON-Inverted 3-State Output)



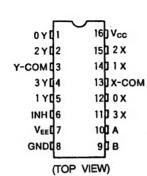
TRUE Table INPUTS OE LE D

OUTPUTS H X X Z LLX Qn L H L нн н

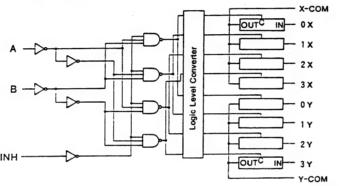
X : Don't Care
Z : Hi impedance
Qn : Q output level before the LE become "L"



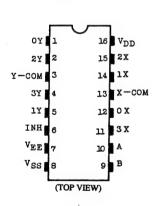
MC74HC4052F [MOTOROLA] (Dual 4-Channel Analog Multiplexer)



IRUE Table)		
CONTROL	INPL	JTS	"ON" CHANNEL
INHIBIT	В	Α	HC4052A
L	L	L	0X, 0Y
L	L	н	1X, 1Y
L	Н	L	2X, 2Y
L	Н	н	3X, 3Y
H	X	X	NONE
X : DON'T C	ARE		

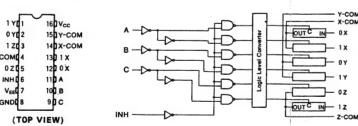


MC14052BF [MOTOROLA] (Dual 4 Channel Analog Multiplexers/ Demultiplexers)

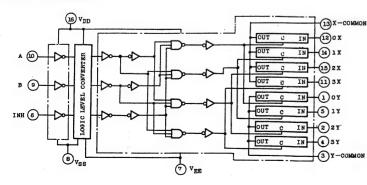


TRUTH TABLE								
CONTRO	L INI	"ON" CHANNEL						
INHIBIT	В	A	TC4052BP TC4052BF					
L	L	L	OX, OY					
L	L	Н	1X, 1Y					
L	Н	L	2X, 2Y					
L	Н	Н	3X, 3Y					
L	L	L	-					
L	L	Н	_					
L	Н	L						
L	н	Н	_					
Н	*	%	NONE					
∦ Don	't Car	е						

MC74HC4053F [MOTOROLA] (Triple 2-Channel Analog Multiplexer/ Demultiplexer)



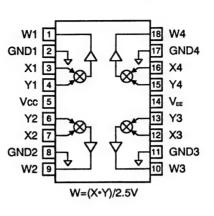
LOGIC DIAGRAM



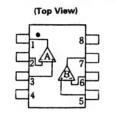
TRUE Table

CONTR	OL II	NPU	"ON" CHANNEL	
INHIBIT	C*	В	A	HC4053A
L	L	L	L	0X, 0Y, 0Z
L	L	L	н	1X, 0Y, 0Z
L	L	н	L	0X, 1Y, 0Z
L	L	н	н	1X, 1Y, 0Z
L	н	L	L	0X, 0Y, 1Z
L	H	L	н	1X, 0Y, 1Z
L	н	н	L	0X, 1Y, 1Z
L	н	н	н	1X, 1Y, 1Z
н	x	X	х	NONE
X:D	ON'I	CA	RE	

MLT04GS [ANALOG DEVICES] (4 Channel Multiplexer)

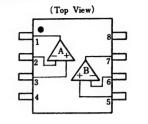


NJM062M [JRC] (J-FET Input Op.Amp)

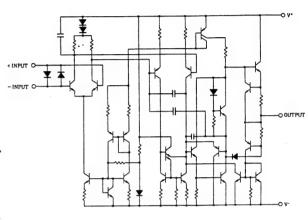


1. A OUTPUT 2. A-INPUT 3. A+INPUT 4. V5. B+INPUT
6. B-INPUT
7. B OUTPUT
8. V

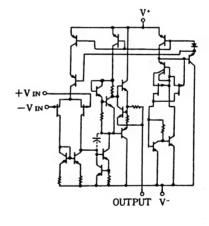
NJM5532M [JRC] (High Performance Dual Low-Noise Op.Amp)

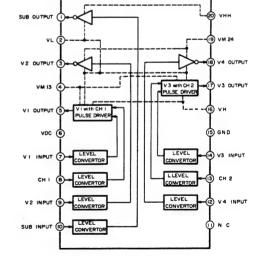


1. A OUTPUT
2. A-INPUT
3. A+INPUT 4. V5. B+INPUT
6. B-INPUT
7. B OUTPUT
8. V-

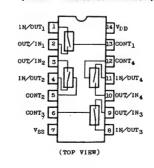


MN3112SA [MATSUSHITA] (Vertical Driver)



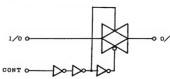


TC4066BF [TOSHIBA] (Quad Bilateral Switch)



1	TRUTH TABLE								
	CONTROL	Impedance Between IN/OUT-OUT/IN **							
	н	05~5×10 ² Ω							
	L	>10 ⁹ Ω							

LOGIC DIAGRAM



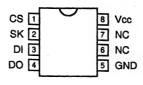
■ NJM78L05UA 【JRC】 (3-Terminal Positive Voltage Regulator (+5V))



2. GND 3. IN

NJM78L00UA

■ NM93C66M8X [National Semi Conductor] (4096-Bit Serial EEPROM)

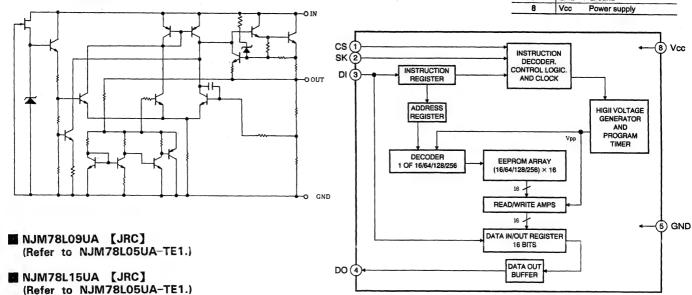


1. OUT

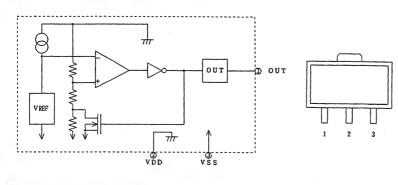
2. VDD

•	Pin No.	1	Pin Name	-
•	1	CS	Chip Select	-
•	2	SK	Serial Data Clock	_
	3	DI	Serial Data Input	
•	4	DO	Serial Data Output	_
•	5	GND	Ground	_

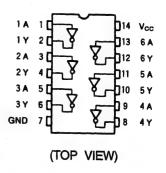
Pin funcction



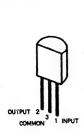
S-8054HNCB [SEIKO INSTRUMENTS] (C-MOS Voltage Detector)

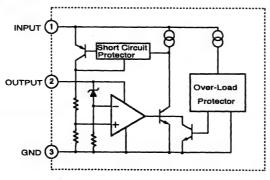


TC74HC04AF [TOSHIBA] (Hex Inverters)

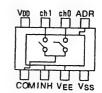


■ TA7809F 【TOSHIBA】
(3-Terminal Positive Voltage Regulator (+9V))

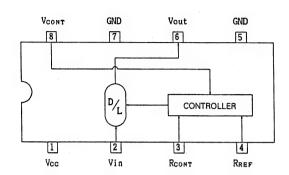




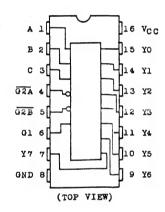
TC4W53F [TOSHIBA] (2-Channel Multiplexer)



TK16031M [TOKO] (Delay Line)



■ TC74HC238AF [TOSHIBA] (3-Line to 8-Line Decoders/ Demultiplexers)



TRL	JE	Table

	INPUTS					OUTPUTS									
	E	ENABLE SELECT		ΥO	Y1	42	Y3 .		T			SELECTED			
i	GSB	A S D	01	С	В	A	10	111	12	13 .	Y 4	¥5	¥ 6	¥7	COIPOI
	х	×	L	x	X	X	L	L	L	L	L	L	L	1.	NONE
	x	н	x	х	x	x	r	L	L	L	ь	ւ	L	i.	NONE
	н	x	x	x	x	X	, F	L	ւ	L	L	L	L	L	NONE
	L	L	н	L	L	L	н	L	ь	ь	L	I.	L	L	ΥO
	L	L	н	r	L	н	E	н	L	L	L	ь	L	L	Y 1
	L	L	н	L	н	L	r	L	н	L	L	ь	L	L	A 5
	L	L	н	L	н	н	L	L	ь	н	Ŀ	L	ь	t,	Y 3
	L	L.	н	н	L	l.	L	i.	ь	L	н	L	t	T,	Y4
	ъ	L	н	н	L	н	L	L	L	1,	l.	н	L	L	YS
	L	L	н	н	н	L	L	L	L	L	L	L	н	L	Y 6
1	L	L	н	н	н	н	L	L	L	L	L	L	L	н	Y 7
	v ·	DON'T	CARE												

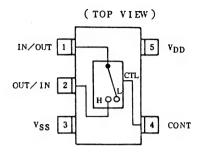
TC74HC4050AFS [TOSHIBA] (Buffer)



v _{CC} t	ī	<u>√16</u>	NO
Y0 [2		Y5
A0 [3	14	A5
Y1 [4	13	NC
A1 [5		1 Y4
Y2 t	6	11	A4
A2 I	7	10	1 Y3
GND (8	9	3 A3

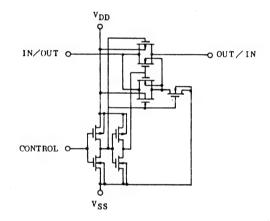
NC = No Connection

TC4S66F [TOSHIBA] (Bilateral Switch)

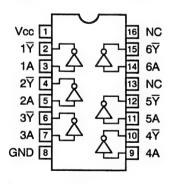


CONTROL	IMPEDANCE BETWEEN IN/OUT-OUT/IN *					
н	$0.5 \sim 5 \times 10^2 \Omega$					
L	> 10 ⁹ Ω					

% See Electrical Characteristics

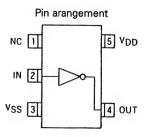


■ TC74HC4049AFS [TOSHIBA] (Hex Buffer/Converter (Inverter))



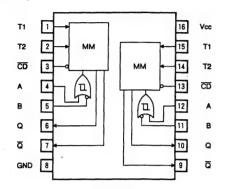
Ture Table					
Α	Ÿ				
L	Н				
Н	L				

TC7S04F [TOSHIBA] (Invertor)



TC74VHC04FS [TOSHIBA] (Refer to TC74HC04AF.)

TC74HC4538AFS [TOSHIBA] (Dual Retriggerable Monostable Multivibrator)

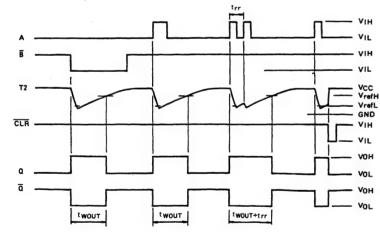


TOP VIEW

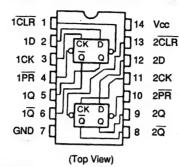
TRUE Table

	INPUT		OUT	PUT	Nome		
A	B	CD	Q	Q	NOTE		
F	н	н		7	OUTPUT ENABLE		
х	L	Н	L	Н	INHIBIT		
Н	х	H	L	Н	INHIBIT		
L	7.	н	<u></u>	7	OUTPUT ENABLE		
х	х	L	L	Н	INHIBIT		

X:Don't Care



TC74VHC74FS [TOSHIBA]
(Dual D-Type Positive-EDGE-Triggered Flip-Flops With Preset AND Clear)

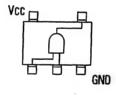


TRUE Table

	INP	UTS		PUTS	FUNCTION	
CLR	PR	D	СК	Q	Q	FUNCTION
L	Н	Х	Х	L	Н	CLEAR
Н	L	Х	Х	Н	L	PRESET
L	L	Х	Х	Н	Н	_
Н	Н	L	1	L	Н	_
Н	Н	Ĥ	1	Н	L	_
Н	Н	Х	7	Qn	\overline{Q}_n	NO CHANGE

X : Don't care

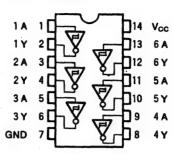
TC7S08F [TOSHIBA] (2 Input Single AND Gate)



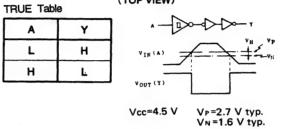
TRUE Table

Α	В	X
L	L	L
L	Н	L
Н	L	L
Н	Ή	Н

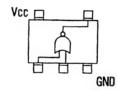
TC74VHC14FS [TOSHIBA] (Hex Schmitt-Trigger Inverters)



(TOP VIEW)

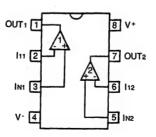


TC7S02F [TOSHIBA] (2 Input Single NOR Gate)

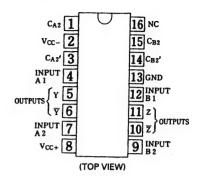


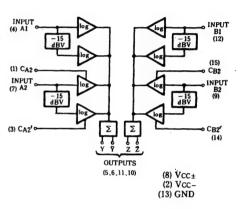
TC7SU04F [TOSHIBA] (Refer to TC7S04F.)

TL441CNS [TEXAS] (Log Amp)

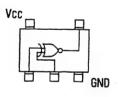


UPC812G2 [NEC] (Op.Amp.)

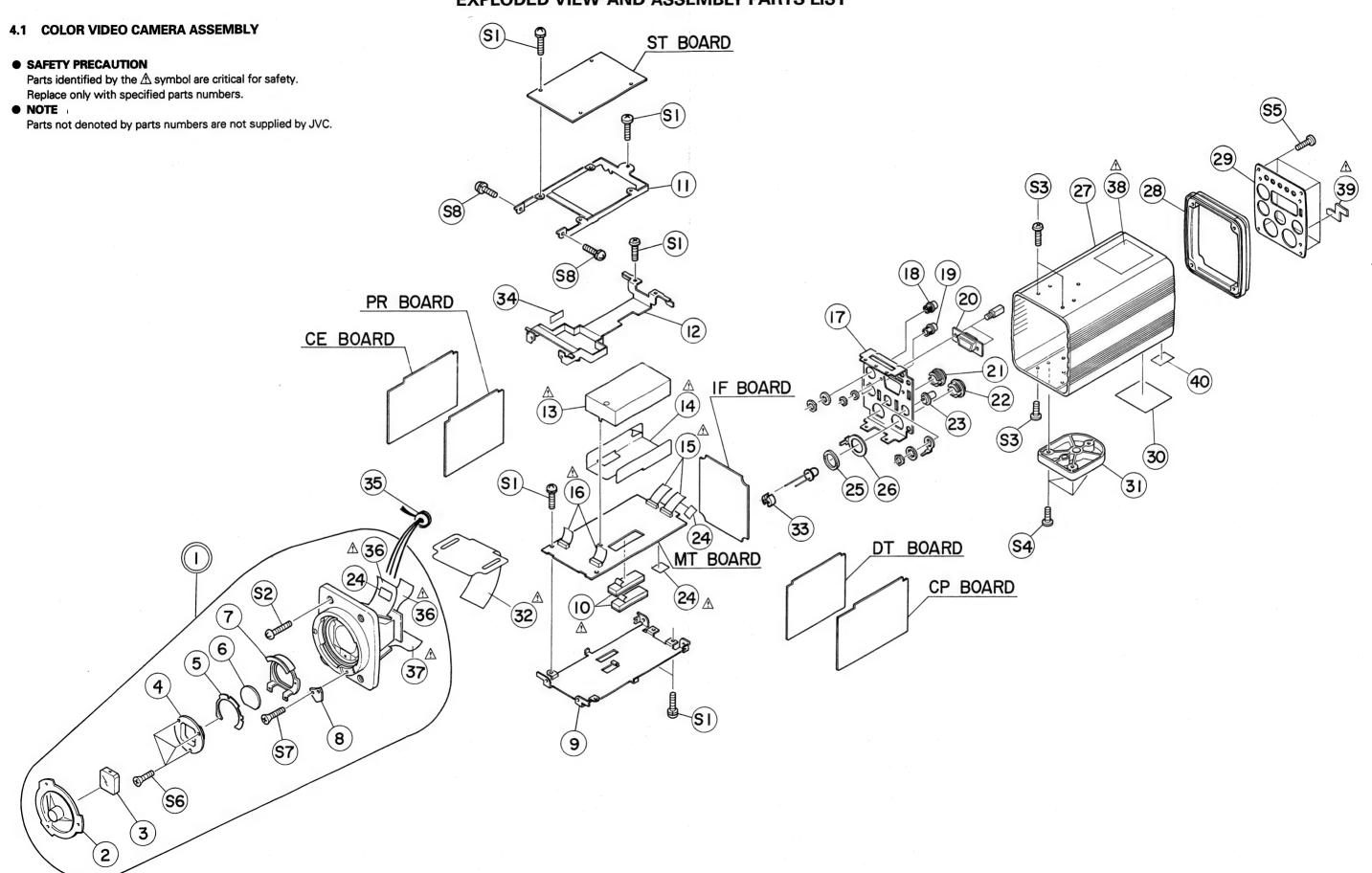




TC7S86F [TOSHIBA] (Single Exelusive OR Gate)



SECTION 4
EXPLODED VIEW AND ASSEMBLY PARTS LIST



4.2 KY-F32 ASSEMBLY LIST M 1

Symbol			MIMM
No.	Part No.	Part Name	Description
1 1 2 3 4	SCM0897-N0A SCM0897-P0A SC43825-002 SC44493-004 SC31300-003	OPTICAL BLOCK ASSEMBLY OPTICAL BLOCK ASSEMBLY CAP FILTER HOLDER	NTSC PAL
5 6 7 8 9	SC45830-001 SC43840-001 SC31964-001 SC43855-001 SC31967-002	FILTER SHEET FILTER FILTER HOLDER LEVER BOTTOM FRAME	
△ 10 11 12 △ 13 △ 14	SC45834-002 SC31966-002 SC31965-012 SCV2672-002 SC45932-002	SHEET ST BRACKET TOP FRAME AC-DC CONVERTER SHEET	
 ▲ 15 ▲ 16 17 18 19 	SSV2605-2005 SSV2605-2411 SC31963-002 SCV1743-001 SCV1695-001	FLAT CABLE FLAT CABLE REAR PLATE CONNECTOR CONNECTOR	IF board — MT board ST board — MT board
20 20 21 22 23	SCV2373-A09 SCV2373-B09 SCV2375-S06 QMDB108-001 CEMB006-00A	CONNECTOR CONNECTOR CONNECTOR CONNECTOR BNC CONNECTOR	PAL (mm type) NTSC (inch type)
24 25 26 27 28	SC45564-003 SC45586-001 SC45831-001 SC20615-022 SC20614-002	SHEET NUT LUG COVER REAR FRAME	
29 30 31 <u>A</u> 32 33	SC31962-001 SC31968-001 SC45948-001 SC43656-025	REAR PANEL NAME PLATE BASE SHIELD PLATE LED SPACER	SS47382-001 2.5 mm (LD301, 302)
34 35 A 36 A 37 A 38	SC45564-004 QHX5092-001 SSV2605-2008 SSV2605-2011 SC45622-001	SHEET WIRE CLAMP FLAT CABLE FLAT CABLE CAUTION LABEL	ISB/ISG board - ST board ISR board - ST board NTSC
M 39 40 S1 S2 S3	SC45455-021 SC45925-001 SDSP2604R SC43397-008 SPSP2604N	LABEL CE LABEL SCREW SCREW SCREW	NTSC PAL M2.6 × 4 M2.6 × 4
\$4 \$5 \$6 \$7 \$8	SPSP2614N SSSK2040M SSSP2604M	SCREW SCREW SCREW SCREW SCREW	M2.6×6 M2.6×14 M2×4.0 M2.6×4 M2.6×6

SECTION 5 ELECTRICAL PARTS LIST

SAFETY PRECAUTION:

Parts identified by the \triangle symbol are critical for safety. Replace only with specified parts numbers. For maximum reliability and performance, all other replacement parts should be identical to those specified.

NOTE:

- Parts not denoted by parts numbers are not supplied by JVC.
- · Abbreviations in this list are as follows:

RESISTORS

In the "Description" column:

All resistance values are in ohms (Ω). K expresses kilo-ohm (1 000 ohms, $k\Omega$).

M expresses mega-ohm (10 6 ohms, M Ω).

In the "Parts Name" column:

COMP. RESISTOR: Composition Resistor
U.F. RESISTOR: Non-inflammable Resistor
O.M.F. RESISTOR: Oxide Metalized Film Resistor

FUSI. RESISTOR : Fusible Resistor
M.P. RESISTOR : Metal Plate Resistor

M.G. RESISTOR : Metal Graze Resistor
M.F. RESISTOR : Metal Film Resistor

W.W. RESISTOR : Wire Wound Resistor

CAPACITORS

In the "Description" column:

All capacitance values are in microfarad (μF) unless

otherwise indicated.

P expresses picofarad (10⁻¹² farad, pF).

In the "Parts Name" column:

TRIM. CAPACITOR: Trimmer Capacitor
CER. CAPACITOR: Ceramic Capacitor
E. CAPACITOR: Electrolytic Capacitor
TAN. CAPACITOR: Tantalum Capacitor
MPP CAPACITOR: Metalized Polypropylene

Capacitor

O.F. CAPACITOR : Oil Film Capacitor

MPF CAPACITOR : Metalized Polyfilm Capacitor

F.M. CAPACITOR : Film Mica Capacitor
P.P. CAPACITOR : Polypropylene Capacitor
P.S. CAPACITOR : Polystyrene Capacitor

- Note: In the "Description" column of the parts list, (U) means the parts for the U version while (E) is for the E Version.

Symbol No.	Part No.	Part Name	Description		
IC1	SCV1585-064	I.C.(M)	JVC	(U)	for U version
	SCV1585-067	I.C.(M)	JVC	(E)	for E version

5.1 ST BOARD ASSEMBLY LIST 0 1 SCK2450-01-NOA (U)

SCK2450-01-POA (E)

	4					
1 61 1	1	1 1	 1 1	 	11 1	

Symbol No.	Part No.	Part Name	Description	Symbol No.	P
IC1	CXD1265R	I.C.(M)	SONY	D5	MA14
IC2	NJM78L15UA	I.C.(M)	JRC	D6	MA74
IC3	MN3112SA	I.C.(M)	MATSUSHITA	D7	MA74
IC4	MN3112SA	I.C.(M)	MATSUSHITA	D8	MA74
IC5	MN3112SA	I.C.(M)	MATSUSHITA	D9	MA74
IC6	NJM062M	I.C.(M)	JRC	D10	MA74
IC7	NJM062M	I.C.(M)	JRC		
IC8	TC7S02F	I.C.(M)	TOSHIBA	D11	MA74
IC9	TC7S04F	I.C.(M)	TOSHIBA	D12	MA14
IC10	TC7S04F	I.C.(M)	TOSHIBA	D13	MA14
				D14	MA14
IC11	TC7S04F	1.C.(M)	TOSHIBA	D98	MA14
IC12	TC74VHC14FS	I.C.(M)	TOSHIBA	D99	MA14
IC13	TC7S02F	1.C.(M)	TOSHIBA	D101	MA33
IC101	JCS0027	I.C.(M)	JVC	D102	MA33
IC102	TC7SU04F	I.C.(M)	TOSHIBA	D103	MA33
IC103	TC7SU04F	I.C.(M)	TOSHIBA	D104	MA33
IC104	TC7SU04F	I.C.(M)	TOSHIBA		11111100
IC105	TC4W53F	I.C.(M)	TOSHIBA	D106	SVC3
IC106	TC74HC4050AFS	I.C.(M)	TOSHIBA	1	0.00
IC107	TC74HC4049AFS	I.C.(M)	TOSHIBA	1	
				R1	NRSA
IC108	NJM062M	1.C.(M)	JRC	R2	NRVA
IC109	TC7S86F	I.C.(M)	TOSHIBA.	R3	NRSA
IC111	LM1881M	I.C.(M)	NATIONAL SEMICO	R4	NRVA
IC112	TC4W53F	I.C.(M)	TOSHIBA	R5	NRVA
IC113	AD8011AR	I.C.(M)	ANALOG DEVICES	R6	NRVA
IC114	AD817AR	I.C.(M)	ANALOG DEVICES	R7	NRSA
IC115	TC74HC4538AFS	I.C.(M)	TOSHIBA	R8	NRVA
IC116	UPC812G2	I.C.(M)	NEC	R9	NRVA
IC119	NJM5532M	I.C.(M)	JRC	R10	NRVA
IC120	NJM5532M	I.C.(M)	JRC		
				R11	NRSA
IC121	TC74HC4050AFS	I.C.(M)	TOSHIBA	R12	NRVA
IC251	TC74VHC74FS	I.C.(M)	TOSHIBA	R13	NRVA
IC252	CXL5504M	I.C.(M)	SONY	R14	NRVA
IC253	CXL5504M	I.C.(M)	SONY	R15	NRVA
IC254	CXL5504M	I.C.(M)	SONY	R16	NRVA
IC351	MB88341PV-ER	I.C.(M)	FUJITSU	R19	NRVA
				R31	NRVA
				R32	NRVA
Q1	2SA1462Y3Y4	TRANSISTOR	NEC	R33	NRVA
Q2	2SC3735(45)	TRANSISTOR	NEC		
Q3	2SA1462Y3Y4	TRANSISTOR	NEC	R34	NRVA
Q4	2SC3735(45)	TRANSISTOR	NEC	R36	NRVA
Q5	2SA1462Y3Y4	TRANSISTOR	NEC	R41	NRSA
Q6	2SC3735(45)	TRANSISTOR	NEC	R42	NRVA
Q7	2SB1219(QR)	TRANSISTOR	MATSUSHITA	R43	NRVA
Q101	2SD1820(QR)	TRANSISTOR	MATSUSHITA	R47	NRVA
Q111	2SC4626(BC)	TRANSISTOR	MATSUSHITA	R51	NRSA
Q112	2SA1790(BC)	TRANSISTOR	MATSUSHITA	R52	NRVA
				R53	NRVA
Q254	2SA1790(BC)	TRANSISTOR	MATSUSHITA	R61	NRSA
Q255	3SK157	F.E.T.	NEC		
Q257	2SA1790(BC)	TRANSISTOR	MATSUSHITA	R62	NRVA
0258	3SK157	F.E.T.	NEC	R63	NRVA
Q259	2SC4626(BC)	TRANSISTOR	MATSUSHITA	R64	NRVA
Q260	2SA1748(QR)	TRANSISTOR	MATSUSHITA	R65	NRVA
Q261	2SC4626(BC)	TRANSISTOR	MATSUSHITA	R71	NRSA
A				· R72	NRVA
				R73	NRVA
D1	MA142A	DIODE	MATSUSHITA	R74	NRVA
	MA142A	DIODE	MATSUSHITA	R75	NRVA
D2					
D2 D3 D4	MA142A MA142A	DIODE	MATSUSHITA MATSUSHITA	R76	NRVA

Symbol No.	Part No.	Part Name	Descrip	tion
D5	MA142A	DIODE	MATSUSHITA	
D6	MA742	DIODE	MATSUSHITA	
D7	MA742	DIODE	MATSUSHITA	
D8	MA742	DIODE	MATSUSHITA	
D9	MA742	DIODE	MATSUSHITA	
D10	MA742	DIODE	MATSUSHITA	
D11	MA742	DIODE	MATSUSHITA.	
D12	MA142A	DIODE	MATSUSHITA	
D13	MA142A	DIODE	MATSUSHITA	
D14	MA142A	DIODE	MATSUSHITA	
D98	MA143A	DIODE	MATSUSHITA	
D99	MA143A	DIODE	MATSUSHITA	
D101	MA335	DIODE	MATSUSHITA	
D102	MA335	DIODE	MATSUSHITA	
D103	MA335	DIODE	MATSUSHITA	
D104	MA335	DIODE	MATSUSHITA	
D106	SVC341L	VARI CAP DIODE	SANYO	
R1	NRSA63J-ORO	M.G.RESISTOR	0	1/16W (E)
R2	NRVA63D-473	M.F.RESISTOR	47K	1/16W(E)
R3	NRSA63J-ORO	M.G.RESISTOR	0	1/16W
R4	NRVA63D-332	M.F.RESISTOR	3.3K	1/16W
R5	NRVA63D-100	M.F.RESISTOR	10	1/16W
R6	NRVA63D-100	M.F.RESISTOR	10	1/16W
R7	NRSA63J-ORO	M.G.RESISTOR	0	1/16W
R8	NRVA63D-332	M.F.RESISTOR	3.3K	1/16W
R9	NRVA63D-100	M.F.RESISTOR	10	1/16W
R10	NRVA63D-100	M.F.RESISTOR	10	1/16W
R11	NRSA63J-0R0	M.G.RESISTOR	Ö	1/16W
R12	NRVA63D-332	M.F.RESISTOR	3.3K	1/16W
R13	NRVA63D-100	M.F.RESISTOR	10	1/16W
R14	NRVA63D-100	M.F.RESISTOR	10	1/16W
R15	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W
R16	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W
R19	NRVA63D-104	M.F.RESISTOR	100K	1/16W
R31	NRVA63D-151	M.F.RESISTOR	150	1/16W
R32	NRVA63D-332	M.F.RESISTOR	3.3K	1/16W
R33	NRVA63D-223	M.F.RESISTOR	22K	1/16W
R34	NRVA63D-472	M.F.RESISTOR	4.7K	1/16W
R36	NRVA63D-104	M.F.RESISTOR	100K	1/16W
R41	NRSA63J-105	M.G.RESISTOR	1.0M	1/16W
R42	NRVA63D-821	M.F.RESISTOR	820	1/16W
R43	NRVA63D-104	M.F.RESISTOR	100K	1/16W
R47	NRVA63D-104	M.F.RESISTOR	100K	1/16W
R51	NRSA63J-105	M.G.RESISTOR	1.0M	1/16W
R52	NRVA63D-821	M.F.RESISTOR	820	1/16W
R53	NRVA63D-104	M.F.RESISTOR	100K	1/16W
R61	NRSA63J-105	M.G.RESISTOR	1.0M	1/16W
R62	NRVA63D-821	M.F.RESISTOR	820	1/16W
R63	NRVA63D-104	M.F.RESISTOR	100K	1/16W
R64	NRVA63D-823	M.F.RESISTOR	82K	1/16W
R65	NRVA63D-333	M.F.RESISTOR	33K	1/16W
R71	NRSA63J-ORO	M.G.RESISTOR	0	1/16W
R72	NRVA63D-221	M.F.RESISTOR	220	1/16W
R73 R74	NRVA63D-331	M.F.RESISTOR	330	1/16W
R74 R75	NRVA63D-821 NRVA63D-220	M.F.RESISTOR M.F.RESISTOR	820	1/16W
R76	NRVA63D-332	M.F.RESISTOR	22 3.3K	1/16W 1/16W
			0.0K	17 1000

Symbol	Don't Ma	P	1 -		Symbol				
No.	Part No.	Part Name	D	escription	No.	Part No.	Part Name		Description
R77	NRVA63D-821	M.F.RESISTOR	820	1/16W	R172	NRVA63D-273	M.F.RESISTOR	27K	1/16W(U)
R78	NRVA63D-220	M.F.RESISTOR	22	1/16W		NRVA63D-133	M.F.RESISTOR	13K	1/16W(E)
R80	NRVA63D-471	M.F.RESISTOR	470	1/16W	R173	NRVA63D-124	M.F.RESISTOR	120K	1/16W
R101	NRSA63J-ORO	M.G.RESISTOR	0	1/16W(U)	R174	NRVA63D-273	M.F.RESISTOR	27K	1/16W(U)
R102	NRSA63J-ORO	M.G.RESISTOR	0	1/16W(U)		NRVA63D-133	M.F.RESISTOR	13K	1/16W(E)
R103	NRSA63J-ORO	M.G.RESISTOR	0	1/16W(E)	R181	NRVA63D-821	M.F.RESISTOR	820	1/16W
R105	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W	R182	NRVA63D-562	M.F.RESISTOR	5.6K	1/16W
R106	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W	R183	NRVA63D-183	M.F.RESISTOR	18K	1/16W
R107	NRVA63D-470	M.F.RESISTOR	47	1/16W	R184	NRVA63D-821	M.F.RESISTOR	820	1/16W
R108	NRVA63D-272	M:F.RESISTOR	2.7K	1/16W	R185	NRVA63D-821	M.F.RESISTOR	820	1/16W
R111	NRVA63D-221	M.F.RESISTOR	220	1/16W	R203	NRVA63D-122	M.F.RESISTOR	1.2K	1/16W
R112	NRVA63D-103	M.F.RESISTOR	10K	1/16W(U)	R204	NRVA63D-331	M.F.RESISTOR	330	1/16W
	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W(E)	R205	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W
R113	NRVA63D-104	M.F.RESISTOR	100K	1/16W	R206	NRSA63J-684	M.G.RESISTOR	680K	
R114	NRVA63D-104	M.F.RESISTOR	100K	1/16W	R207	NRVA63D-331	M.F.RESISTOR	330	
R115	NRVA63D-104	M.F.RESISTOR	100K	1/16W	R208	NRVA63D-392	M.F.RESISTOR	3.9K	1/16W
R116	NRSA63J-105	M.G.RESISTOR	1.0M	1/16W	R209	NRVA63D-122			1/16W
R117	NRVA63D-271	M.F.RESISTOR	270	1/16W	R210	NRVA63D-122	M.F.RESISTOR	1.2K	1/16W
R118	NRSA63J-ORO	M.G.RESISTOR	0	1/16W			M.F.RESISTOR	1.2K	1/16W
R121	NRVA63D-223	M.F.RESISTOR	22K		R211	NRVA63D-221	M.F.RESISTOR	220	1/16W
R122	NRVA63D-223	M.F.RESISTOR	22K	1/16W 1/16W	R212	NRVA63D-104	M.F.RESISTOR	100K	1/16W
					R213	NRVA63D-101	M.F.RESISTOR	100	1/16W
R123	NRSA63J-ORO	M.G.RESISTOR	0	1/16W	R215	NRVA63D-104	M.F.RESISTOR	100K	1/16W
R124	NRVA63D-333	M.F.RESISTOR	33K	1/16W	R216	NRVA63D-473	M.F.RESISTOR	47K	1/16W
R125	NRVA63D-104	M.F.RESISTOR	100K	1/16W	R217	NRVA63D-473	M.F.RESISTOR	47K	1/16W
R126	NRVA63D-104	M.F.RESISTOR	100K	1/16W	R218	NRVA63D-273	M.F.RESISTOR	27K	
R127.	NRVA63D-104	M.F.RESISTOR	100K	1/16W	R219	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W
R128	NRSA63J-105	M.G.RESISTOR	1.0M	1/16W	R220	NRVA63D-563		4	1/16W
R129	NRVA63D-221	M.F.RESISTOR	220	1/16W	R221	NRVA63D-383	M.F.RESISTOR	56K	1/16W
R141	NRVA63D-333	M.F.RESISTOR	33K	1/16W	R222		M.F.RESISTOR	33K	1/16W
R142	NRVA63D-103	M.F.RESISTOR	10K			NRVA63D-273	M.F.RESISTOR	27K	1/16W
R143	NRVA63D-333	M.F.RESISTOR	33K	1/16W 1/16W	R223	NRVA63D-104	M.F.RESISTOR	100K	1/16W
					R251	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W(U)
R144	NRVA63D-103	M.F.RESISTOR	10K	1/16W	R252	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W(E)
R151	NRVA63D-682	M.F.RESISTOR	6.8K	1/16W(U)	R253	NRVA63D-221	M.F.RESISTOR	220	1/16W
	NRVA63D-393	M.F.RESISTOR	39K	1/16W(E)	R254	NRVA63D-100	M.F.RESISTOR	10	1/16W
R152	NRVA63D-184	M.F.RESISTOR	180K	1/16W(E)	R255	NRVA63D-332	M.F.RESISTOR	3.3K	1/16W
R153	NRVA63D-912	M.F.RESISTOR	9.1K	1/16W(U)	R256	NRVA63D-470	M.F.RESISTOR	47	1/16W
	NRVA63D-103	M.F.RESISTOR	10K	1/16W(E)	R259	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R154	NRVA63D-124	M.F.RESISTOR	120K	1/16W	R264	NRVA63D-392	M.F.RESISTOR	3.9K	1/16W
R155	NRVA63D-124	M.F.RESISTOR	120K	1/16W	R265	NRVA63D-183	M.F.RESISTOR	18K	
R156	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W	R266	NRVA63D-223			1/16W
R157	NRVA63D-682	M.F.RESISTOR	6.8K		N200	NHVA03D-223	M.F.RESISTOR	22K	1/16W
"""	NRVA63D-393	M.F.RESISTOR	39K	1/16W(U) 1/16W(E)	D267	NDVACOD 150	M E DECICEOD	4 -14	
R158	NRVA63D-184	M.F.RESISTOR	1		R267	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W
R159	NRVA63D-184	1	180K	1/16W(E)	R271	NRVA63D-392	M.F.RESISTOR	3.9K	1/16W
nios		M.F.RESISTOR	9.1K	1/16W(U)	R272	NRVA63D-183	M.F.RESISTOR	18K	1/16W
	NRVA63D-103	M.F.RESISTOR	10K	1/16W(E)	R273	NRVA63D-223	M.F.RESISTOR	22K	1/16W
					R274	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W
R160	NRVA63D-124	M.F.RESISTOR	120K	1/16W	R275	NRVA63D-182	M.F.RESISTOR	1.8K	1/16W
R161	NRVA63D-124	M.F.RESISTOR	120K	1/16W	R276	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W
R162	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W	R277	NRVA63D-392	M.F.RESISTOR	3.9K	1/16W
R163	NRVA63D-682	M.F.RESISTOR	6.8K	1/16W(U)	R278	NRVA63D-182	M.F.RESISTOR	1.8K	1/16W
	NRVA63D-393	M.F.RESISTOR	39K	1/16W(E)	R279	NRVA63D-123	M.F.RESISTOR	12K	1/16W
R164	NRVA63D-184	M.F.RESISTOR	180K	1/16W(E)		111111111111111111111111111111111111111	Will INCOMPON	121	1/1044
R165	NRVA63D-912	M.F.RESISTOR	9.1K	1/16W(U)	R280	NRVA63D-103	M.F.RESISTOR	104	1/10/4/
	NRVA63D-103	M.F.RESISTOR	10K	1/16W(E)	R281	NRVA63D-103	M.F.RESISTOR	10K	1/16W
R166	NRVA63D-124	M.F.RESISTOR	120K					22K	1/16W
R167	NRVA63D-124			1/16W	R282	NRVA63D-223	M.F.RESISTOR	22K	1/16W
		M.F.RESISTOR	120K	1/16W	R283	NRVA63D-182	M.F.RESISTOR	1.8K	1/16W
R168 R169	NRVA63D-152 NRVA63D-124	M.F.RESISTOR M.F.RESISTOR	1.5K 120K	1/16W 1/16W	R284	NRVA63D-220	M.F.RESISTOR	22	1/16W
R170	NRVA63D-273	M.F.RESISTOR	27K	1/16W(U)	C1	NCT06CH-221	CER.CAPACITOR	220P	50V
D174	NRVA63D-133	M.F.RESISTOR	13K	1/16W(E)	C2	NEE51AM-476	TAN.CAPACITOR	47	10V
R171	NRVA63D-124	M.F.RESISTOR	120K	1/16W	C3	NEHB1AM-477	E.CAPACITOR	470	10V

Symbol No.	Part No.	Part Name	Des	cription	Symbol No.	Part No.	Part Name	Des	cription
C5	NCB31CK-473	CER.CAPACITOR	0.047	16V	C79	NCB31CK-473	CER.CAPACITOR	0.047	16V
C6	NCB31CK-473	CER.CAPACITOR	0.047	16V	C101	NCB31CK-473	CER.CAPACITOR	0.047	16V
C8	NCT06CH-151	CER.CAPACITOR	150P	50V	C102	NCB31CK-473	CER.CAPACITOR	0.047	16V
C9	NCB31CK-473	CER.CAPACITOR	0.047	16V	C103	NCB31CK-473	CER.CAPACITOR		
C10	NCT06CH-221	CER.CAPACITOR	220P	50V	C104	NCB31CK-473		0.047	16V
C11	NCB31CK-473	CER.CAPACITOR	0.047	16V			CER.CAPACITOR	0.047	16V
C12	NCB31CK-473	CER.CAPACITOR			C105	NEHAOJM-686	E.CAPACITOR	68	6.3V
012	NOD310K-473	CER.CAPACITOR	0.047	16V	C106	NEHAOJM-686	E.CAPACITOR	68	6.3V
C10	NOTOCOLL EDG	055 04540/505			C107	NEE51CM-475	TAN.CAPACITOR	4.7	16V
C13	NCT06CH-5RO	CER.CAPACITOR	5.0P	50V					
C14	NCT06CH-5R0	CER.CAPACITOR	5.0P	50V	C108	NEE51CM-336	TAN.CAPACITOR	33	16V
C15	NCB31CK-473	CER.CAPACITOR	0.047	16V	C109	NEE51CM-475	TAN.CAPACITOR	4.7	16V
C16	NCB31CK-473	CER.CAPACITOR	0.047	16V	C110	NEE51CM-156	TAN.CAPACITOR	15	16V
C17	NCT06CH-5R0	CER.CAPACITOR	5.0P	50V	C111	NCB31CK-473	CER.CAPACITOR	0.047	16V
C18	NCT06CH-5RO	CER.CAPACITOR	5.0P	50V	C112	NEE51EM-105	TAN.CAPACITOR	1.0	25V
C19	NCB31CK-473	CER.CAPACITOR	0.047	16V	C113	NCT06CH-560	CER.CAPACITOR	56P	50V
C20	NCB31CK-473	CER.CAPACITOR	0.047	16V	C114	NCT06CH-560	CER.CAPACITOR	56P	
C21	NCT06CH-5RO	CER.CAPACITOR	5.0P	50V	C115	NCB31HK-103			50V
C22	NCTO6CH-5RO	CER.CAPACITOR	5.0P	1			CER.CAPACITOR	0.010	50V
OLL	140100011 3110	CLIT.CALACITOR	5.01	50V	C116	NCB31CK-473	CER.CAPACITOR	0.047	16V
coo	NEEE LONG AZE	TAN CARACITOR	4.7		C121	NCB31HK-103	CER.CAPACITOR	0.010	50V
C23	NEE51CM-475	TAN.CAPACITOR	4.7	16V					
C25	NEE51CM-156	TAN.CAPACITOR	15	16V	C122	NEE51EM-105	TAN.CAPACITOR	1.0	25V
C31	NEE51VM-155	TAN.CAPACITOR	1.5	35V	C123	NCT06CH-101	CER.CAPACITOR	100P	50V
C32	NEE51VM-155	TAN.CAPACITOR	1.5	35V	C124	NCT06CH-101	CER.CAPACITOR	100P	50V
C33	NCB21EK-473	CER.CAPACITOR	0.047	25V	C125	NCB31HK-103	CER.CAPACITOR	0.010	50V
C34	NCB21EK-473	CER.CAPACITOR	0.047	25V	C126	NCB31CK-473	CER.CAPACITOR	0.047	16V
C35	NEE51DM-106	TAN.CAPACITOR	10	20V	C141	NCB31CK-473	CER.CAPACITOR	0.047	16V
C36	NEE51CM-336	TAN.CAPACITOR	33	16V	C142	NCB31CK-473	CER.CAPACITOR	0.047	
C38	NEE51CM-336	TAN.CAPACITOR	33	16V	C144	NCB31HK-152	CER.CAPACITOR		16V
C39	NEE51CM-156	TAN.CAPACITOR	15	16V	C144			1500P	50V
000	TALLESTON TOO	TANIGAL ACTION	13	100		NCB31HK-272	CER.CAPACITOR	2700P	50V
C40	NEE51CM-475	TAN CARACITOR	4.7	4074	C146	NCT06CH-331	CER.CAPACITOR	330P	50V
	3	TAN.CAPACITOR	4.7	16V					
C41	NEE51VM-474	TAN.CAPACITOR	0.47	35V	C149	NCB31CK-473	CER.CAPACITOR	0.047	16V
C42	NEE51EM-106	TAN.CAPACITOR	10	25V	C150	NCB31CK-473	CER.CAPACITOR	0.047	16V
C43	NEE51CM-156	TAN.CAPACITOR	15	16V	C151	NCB31CK-473	CER.CAPACITOR	0.047	16V
C44	NCB31CK-473	CER.CAPACITOR	0.047	16V	C152	NCB31CK-473	CER.CAPACITOR	0.047	16V
C45	NCB21EK-473	CER.CAPACITOR	0.047	25V	C153	NCB31CK-473	CER.CAPACITOR	0.047	16V
C46	NCB31CK-473	CER.CAPACITOR	0.047	16V	C154	NCB31CK-473	CER.CAPACITOR	0.047	16V
C47	NEE51EM-105	TAN.CAPACITOR	1.0	25V	C155	NCB31CK-473	CER.CAPACITOR	0.047	16V
C49	NCB31CK-473	CER.CAPACITOR	0.047	16V	C156	NCT06CH-101	CER.CAPACITOR		
C51	NEE51VM-474	TAN.CAPACITOR	0.47	35V	C157	NCT06CH-101		100P	50V
		17111.071171011011	0.47	304			CER.CAPACITOR	100P	50V
C52	NEE51EM-106	TAN.CAPACITOR	10	051/	C158	NCT06CH-101	CER.CAPACITOR	100P	50V
C53			10	25V					
	NEE51CM-225	TAN.CAPACITOR	2.2	16V	C202	NCT06CH-151	CER.CAPACITOR	150P	50V (U)
C54	NCB31CK-473	CER.CAPACITOR	0.047	16V	1	NCT06CH-101	CER.CAPACITOR	100P	50V (E)
C55	NCB21EK-473	CER.CAPACITOR	0.047	25V	C203	NCT06CH-220	CER.CAPACITOR	22P	50V (U)
C56	NCB31CK-473	CER.CAPACITOR	0.047	16V	C204	NCB31CK-473	CER.CAPACITOR	0.047	16V
C57	NEE51EM-105	TAN.CAPACITOR	1.0	25V	C205	NCB31CK-473	CER.CAPACITOR	0.047	16V
C61	NEE51VM-474	TAN.CAPACITOR	0.47	35V	C206	NCB31HK-103	CER.CAPACITOR	0.010	50V
C62	NEE51EM-106	TAN.CAPACITOR	10	25V	C207	NCB31CK-473	CER.CAPACITOR	0.047	16V
C63	NEE51CM-156	TAN.CAPACITOR	15	16V	C208	NCB31CK-473	CER.CAPACITOR	0.047	
C64	NCB31CK-473	CER.CAPACITOR	0.047	16V	C209	NCB31CK-473	CER.CAPACITOR		16V
			0.017	101				0.047	16V
C65	NCB31EV_473	CER CARACITOR	0.047	0514	C210	NCB31CK-473	CER.CAPACITOR	0.047	16V
	NCB21EK-473	CER.CAPACITOR	0.047	25V					
C66	NCB31CK-473	CER.CAPACITOR	0.047	16V	C211	NCB31CK-473	CER.CAPACITOR	0.047	16V
C67	NEE51EM-105	TAN.CAPACITOR	1.0	25V	C212	NCT06CH-560	CER.CAPACITOR	56P	50V
C68	NCB31CK-473	CER.CAPACITOR	0.047	16V	C213	NCB31CK-473	CER.CAPACITOR	0.047	16V
C69	NCB31CK-473	CER.CAPACITOR	0.047	16V	C214	NCB31CK-473	CER.CAPACITOR	0.047	16V
C72	NCB31CK-473	CER.CAPACITOR	0.047	16V	C215	NCB31CK-473	CER.CAPACITOR	0.047	16V
C73	NCT06CH-100	CER.CAPACITOR	10P	50V	C216	NCB31CK-473	CER.CAPACITOR	0.047	16V
C74	NCT06CH-100	CER.CAPACITOR	10P	50V	C217	NCB31CK-473	CER.CAPACITOR	0.047	
C75	NCT06CH-100	CER.CAPACITOR	10P	50V	C217	NCB31CK-473	CER.CAPACITOR		16V
C76	NCT06CH-100	CER.CAPACITOR	10P	50V	C218			0.047	16V
•		JEILONI AUT OIT	101	50 V		NCB31CK-473	CER.CAPACITOR	0.047	16V
C77	NCT06CH-100	CER CARACITOR	102	FO.4	C220	NEE51AM-476	TAN.CAPACITOR	47	10V
C78		CER.CAPACITOR	10P	50V					
U/6	NCB31CK-473	CER.CAPACITOR	0.047	16V	C221	NEE51AM-476	TAN.CAPACITOR	47	10V

5.2 ISB BOARD ASSEMBLY LIST 02 SCK2450-02-00A

SCK2450-02-00A 02

C236 N C241 N C253 N C254 N C255 N C256 N C256 N C260 N C261 N C266 N C267 N C268 N C269 N C270 N C271 N C272 N C273 N C274 N C351 N C352 N C353 N C354 N C355 N C356 N C357 N C357 N C358 N C357 N C358 N C359 N	FN31HJ-472 CB31CK-473 CB31CK-473 EE51EM-105 CT03CH-102 CB31CK-473 EE50GM-476 EE51EM-105 CB31CK-473 EE50GM-476 EE51EM-105 CB31CK-473 EE50GM-476 CB31CK-473	F.CAPACITOR CER.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.	0.0047 0.047 1.0 1000P 0.047 47 1.0 0.047 47 1.0 0.047 47 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047	16V 16V 25V 50V 16V 4V 25V 16V 4V 16V 16V 16V 16V 16V 16V 16V 16V 16V 16
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C255 N C256 N C258 N C260 N C261 N C265 N C266 N C266 N C267 N C270 N C271 N C272 N C274 N C351 N C352 N C353 N C354 N C355 N C356 N C357 N C357 N C358 N C357 N C358 N C359 N	CB31CK-473 EE50GM-476 EE51EM-105 CB31CK-473 EE50GM-476 EE51EM-105 CB31CK-473 EE50GM-476 CB31CK-473	CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR E.CAPACITOR E.CAPACITOR CER.CAPACITOR	0.047 47 1.0 0.047 47 1.0 0.047 47 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047	16V 4V 25V 16V 4V 16V 16V 16V 16V 16V 16V 16V 16
C256 N C258 N C260 N C261 N C265 N C266 N C267 N C268 N C269 N C270 N C271 N C272 N C273 N C274 N C351 N C352 N C353 N C354 N C355 N C356 N C357 N C357 N C358 N C357 N C358 N C359 N	EE50GM-476 EE51EM-105 CB31CK-473 EE50GM-476 EE51EM-105 CB31CK-473 EE50GM-476 CB31CK-473	TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR E.CAPACITOR E.CAPACITOR CER.CAPACITOR	47 1.0 0.047 47 1.0 0.047 47 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047	25V 16V 4V 25V 16V 4V 16V 16V 16V 16V 16V 16V 16V 16V 16V 16
C258 N C260 N C261 N C265 N C266 N C267 N C268 N C269 N C270 N C271 N C272 N C273 N C274 N C351 N C352 N C353 N C354 N C355 N C356 N C357 N C357 S C358 N C358 N C359 N	EE51EM-105 CB31CK-473 EE50GM-476 EE51EM-105 CB31CK-473 EE50GM-476 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 EE51AM-476 EHAOJM-686 EHAOJM-686 CB31CK-473	TAN.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR E.CAPACITOR E.CAPACITOR E.CAPACITOR CER.CAPACITOR	1.0 0.047 47 1.0 0.047 47 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047	25V 16V 4V 25V 16V 4V 16V 16V 16V 16V 16V 16V 16V 16V 16V 16
C260 N C261 N C261 N C266 N C266 N C267 N C268 N C269 N C270 N C271 N C272 N C273 N C274 N C351 N C352 N C353 N C354 N C355 N C356 N C357 N C358 N C357 S C358 N C359 N	CB31CK-473 EE50GM-476 EE51EM-105 CB31CK-473 EE50GM-476 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 EE51AM-476 EHA0JM-686 EHA0JM-686 EHA0JM-686 CB31CK-473	CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR E.CAPACITOR E.CAPACITOR E.CAPACITOR CER.CAPACITOR	0.047 47 1.0 0.047 47 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047	16V 4V 25V 16V 16V 16V 16V 16V 16V 16V 16
C261 N C265 N C266 N C267 N C268 N C269 N C270 N C271 N C272 N C274 N C351 N C352 N C353 N C354 N C355 N C356 N C357 N C358 N C357 S C358 N C359 N L103 S L251 S LC1 S LC1 S LC1 S LC1 S LC102 S LC102 S	EE50GM-476 EE51EM-105 CB31CK-473 EE50GM-476 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 EE51AM-476 EHA0JM-686 EHA0JM-686 CB31CK-473	TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR E.CAPACITOR E.CAPACITOR CER.CAPACITOR	1.0 0.047 47 0.047 0.047 0.047 0.047 47 68 68 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047	25V 16V 4V 16V 16V 16V 16V 16V 6.3V 6.3V 16V 16V 16V 16V 16V 16V 16V
C265 N C266 N C267 N C268 N C269 N C270 N C271 N C272 N C273 N C274 N C351 N C352 N C353 N C354 N C355 N C356 N C357 C358 N C357 S C358 S C359 N	EE51EM-105 CB31CK-473 EE50GM-476 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 EE51AM-476 EHAOJM-686 EHAOJM-686 CB31CK-473	TAN.CAPACITOR CER.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR E.CAPACITOR E.CAPACITOR CER.CAPACITOR	1.0 0.047 47 0.047 0.047 0.047 0.047 47 68 68 0.047 0.047 0.047 0.047 0.047 0.047 0.047	25V 16V 4V 16V 16V 16V 16V 6.3V 6.3V 16V 16V 16V 16V 16V 16V 16V
C266 N C267 N C268 N C269 N C270 N C271 N C272 N C273 N C351 N C352 N C353 N C354 N C355 N C356 N C356 N C357 S C358 S C357 S C358 S C359 N	CB31CK-473 EE50GM-476 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 EE51AM-476 EHAOJM-686 EHAOJM-686 CB31CK-473	CER.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR E.CAPACITOR E.CAPACITOR CER.CAPACITOR	0.047 47 0.047 0.047 0.047 0.047 47 68 68 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047	16V 4V 16V 16V 16V 16V 16V 6.3V 6.3V 16V 16V 16V 16V 16V 16V 16V
C267 N C268 N C269 N C270 N C271 N C272 N C273 N C274 N C351 N C352 N C354 N C355 N C356 N C357 N C358 N C359 N L103 SS L251 SG LC1 SG LC101 SG LC102 SG	EE50GM-476 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 EE51AM-476 EHAOJM-686 EHAOJM-686 CB31CK-473	TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR E.CAPACITOR E.CAPACITOR CER.CAPACITOR	47 0.047 0.047 0.047 47 68 68 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047	4V 16V 16V 16V 16V 10V 6.3V 6.3V 16V 16V 16V 16V 16V 16V 16V
C268 N C269 N C270 N C271 N C272 N C273 N C274 N C351 N C352 N C353 N C354 N C355 N C356 N C357 N C358 N C359 N L103 SS L251 SG	CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 EE51AM-476 EHAOJM-686 EHAOJM-686 CB31CK-473	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR E.CAPACITOR E.CAPACITOR CER.CAPACITOR	0.047 0.047 0.047 47 68 68 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047	16V 16V 16V 16V 10V 6.3V 6.3V 16V 16V 16V 16V 16V 16V 16V
C269 N C270 N C271 N C272 N C273 N C274 N C351 N C352 N C353 N C356 N C356 N C357 N C358 N C359 N C359 N C351 SC C351 SC C351 SC C352 SC C353 SC C353 SC C353 SC C353 SC C354 SC C355 SC SC SC SC SC SC SC SC SC SC SC SC SC S	CB31CK-473 CB31CK-473 CB31CK-473 EE51AM-476 EHAOJM-686 EHAOJM-686 CB31CK-473	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR E.CAPACITOR E.CAPACITOR CER.CAPACITOR	0.047 0.047 47 68 68 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047	16V 16V 16V 10V 6.3V 6.3V 16V 16V 16V 16V 16V 16V 16V
C270 N C271 N C272 N C273 N C274 N C351 N C352 N C353 N C356 N C356. N C357 N C358 N C359 N L103 St L251 Sc	CB31CK-473 CB31CK-473 EE51AM-476 EHAOJM-686 EHAOJM-686 CB31CK-473	CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR E.CAPACITOR E.CAPACITOR CER.CAPACITOR	0.047 0.047 47 68 68 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047	16V 16V 10V 6.3V 6.3V 16V 16V 16V 16V 16V 16V 16V 16V
C271 N C272 N C273 N C274 N C351 N C352 N C353 N C354 N C356 N C356 N C357 N C358 N C359 N L103 St L251 Sc LC1 Sc LC102 Sc	CB31CK-473 EE51AM-476 EHAOJM-686 EHAOJM-686 CB31CK-473	CER.CAPACITOR TAN.CAPACITOR E.CAPACITOR E.CAPACITOR CER.CAPACITOR	0.047 47 68 68 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047	16V 10V 6.3V 6.3V 16V 16V 16V 16V 16V 16V 16V 16V
C272 N C273 N C274 N C351 N C352 N C353 N C354 N C356 N C357 N C358 N C359 N L103 St L251 Sc LC1 Sc LC102 Sc	EE51AM-476 EHAOJM-686 EHAOJM-686 CB31CK-473	TAN.CAPACITOR E.CAPACITOR E.CAPACITOR CER.CAPACITOR	47 68 68 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047	10V 6.3V 6.3V 16V 16V 16V 16V 16V 16V 16V 16V
C273 N C274 N C351 N C352 N C353 N C354 N C355 N C356 N C357 N C358 N C359 N L103 St L251 Sc LC1 Sc LC102 Sc	EHAOJM-686 EHAOJM-686 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473	E.CAPACITOR E.CAPACITOR CER.CAPACITOR	68 68 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047	10V 6.3V 6.3V 16V 16V 16V 16V 16V 16V 16V 16V
C274 N C351 N C352 N C353 N C354 N C355 N C356 N C357 N C358 N C359 N L103 SS L251 SC LC1 SC LC101 SS LC102 SS	EHAOJM-686 CB31CK-473	E.CAPACITOR E.CAPACITOR CER.CAPACITOR	68 68 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047	6.3V 6.3V 16V 16V 16V 16V 16V 16V 16V
C351 N C352 N C353 N C354 N C355 N C356 N C357 N C358 N C359 N L103 St L251 Sc LC1 Sc LC1 Sc LC102 Sc	CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473	CER.CAPACITOR	68 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047	6.3V 16V 16V 16V 16V 16V 16V 16V
C352 N C353 N C354 N C355 N C356 N C357 N C358 N C359 N L103 St L251 St LC1 St LC2 St LC101 St	CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.047 0.047 0.047 0.047 0.047 0.047 0.047	16V 16V 16V 16V 16V 16V
C352 N C353 N C354 N C355 N C356. N C357 N C358 N C359 N L103 St L251 St LC1 St LC2 St LC101 St	CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.047 0.047 0.047 0.047 0.047 0.047 0.047	16V 16V 16V 16V 16V 16V
C353 N C354 N C355 N C356 N C357 N C358 N C359 N L103 SS L251 SC LC1 SC LC1 SC LC101 SS LC102 SS	CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.047 0.047 0.047 0.047 0.047 0.047 0.047	16V 16V 16V 16V 16V
C354 N C355 N C356. N C357 N C358 N C359 N L103 SS L251 SG LC1 SG LC101 SG LC102 SG	CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.047 0.047 0.047 0.047 0.047 0.047	16V 16V 16V 16V
C355 N C356. N C357 N C358 N C359 N L103 SS L251 SG LC1 SG LC2 SG LC101 SG LC102 SG	CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.047 0.047 0.047 0.047 0.047	16V 16V 16V 16V
C356. N C357 N C358 N C359 N L103 St L251 St LC1 St LC1 St LC1 St LC102 St	CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473 CB31CK-473	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.047 0.047 0.047 0.047	16V 16V 16V
C357 N C358 N C359 N L103 St L251 St LC1 St LC1 St LC102 St	CB31CK-473 CB31CK-473 CB31CK-473	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.047 0.047 0.047	16V 16V
C358 N C359 N L103 St L251 St LC1 St LC2 St LC101 St LC102 St	CB31CK-473 CB31CK-473 SV2623-120	CER.CAPACITOR CER.CAPACITOR	0.047	16V
LC1 SC LC101 SC LC102 SC	CB31CK-473 SV2623-120	CER.CAPACITOR	0.047	
L103 St L251 St LC1 St LC2 St LC101 St LC102 St	SV2623-120			16V
LC1 SG LC2 SG LC101 SG LC102 SG		PEAKING COIL	12#H	
LC2 S0 LC101 S0 LC102 S0	CV2002-027	FERRITE BEADS		
LC104 S0	CV1804-222 CV1804-222 CV1804-222 CV1804-222 CV1804-222 CV1804-222 CV2597-S144Z CV2528-001Z	EMI FILTER		(U)
X1 CI	E41081-A0A	CRYSTAL	28.636 MHz	(U)
	E41212-001	CRYSTAL	28.375 MHz	(E)
X2 St	CV2219-001	CRYSTAL	14.31818 MHz	(U)
CI	E42275-001	CRYSTAL	17.734475 MHz	(E)
CN1 S	SV2614-24	CONNECTOR	24PIN	
i	SV2614-24	CONNECTOR	24PIN	
	SV2614-20	FFC CONNECTOR	20PIN	
1	SV2614-20	FFC CONNECTOR	20PIN	
	SV2614-20	FFC CONNECTOR	20PIN	
	CV1880-001	TEST POINT	VD	
		TEST POINT	HD	
	CV1880-001		100	
TP104 S	CV1880-001	TEST POINT	SC	

Symbol	Part No.	Dovt Ma	Doceristion	_
No.	Fart No.	Part Name	Description	
SK1	SCV1217-010	I.C.SOCKET	for IC1	
IC2	CXA1439M	I.C.(M)	SONY	
IC3	TC74VHC04FS	I.C.(M)	TOSHIBA	
IC5	CLC425AJE-T2	1.C.(M)	COMLINEAR	
Q1	2SC4626(BC)	TRANSISTOR	MATSUSHITA	
R1	NRSA63J-105	M.G.RESISTOR	1.0M 1/16W	
R2	NRVA63D-391	M.F.RESISTOR	390 1/16W	
R3	NRVA63D-184	M.F.RESISTOR	180K 1/16W	
R4	NRVA63D-273	M.F.RESISTOR	27K 1/16W	
R5	NRVA63D-682	M.F.RESISTOR	6.8K 1/16W	
R7	NRVA63D-101	M.F.RESISTOR	100 1/16W	
R8	NRVA63D-561	M.F.RESISTOR	560 1/16W	
R9	NRVA63D-102	M.F.RESISTOR	1.0K 1/16W	
R10	NRVA63D-391	M.F.RESISTOR	390 1/16W	
R11	NRVA63D-180	M.F.RESISTOR	18 1/16W	
		IIII III ESIS (SII		İ
R12	NRVA63D-180	M.F.RESISTOR	18 1/16W	
R13	NRVA63D-180	M.F.RESISTOR	18 1/16W	
R14	NRVA63D-180	M.F.RESISTOR	18 1/16W	
R16	NRSA63J-ORO	M.G.RESISTOR	0 1/16W	
R17	NRVA63D-220	M.F.RESISTOR	22 1/16W	
R18	NRVA63D-561	M.F.RESISTOR	560 1/16W	
C1	NEF11VM-335	TAN.CAPACITOR	3.3 35V	
C2	NCB21EK-473	CER.CAPACITOR	0.047 25V	
СЗ	NCB21EK-473	CER.CAPACITOR	0.047 25V	
C4	NEE50GM-476	TAN.CAPACITOR	47 4V	
C5	NEF11AM-225	TAN.CAPACITOR	2.2 10V	
C6	NCB21EK-473	CER.CAPACITOR	0.047 25V	
C7	NCB21EK-473	CER, CAPACITOR	0.047 25V	
C8	NCB21EK-473	CER.CAPACITOR	0.047 25V	
C11	NCB21EK-473	CER.CAPACITOR	0.047 25V	
C12	NCB21EK-473	CER.CAPACITOR	0.047 25V	
040				
C13 C15	NCB21EK-473 NCB21EK-473	CER.CAPACITOR	0.047 25V	
1		CER.CAPACITOR	0.047 25V	
C16	NCB21EK-473	CER.CAPACITOR	0.047 25V	
C17	NCB21EK-473	CER.CAPACITOR	0.047 25V	
C18	NCB21EK-473	CER.CAPACITOR	0.047 25V	
C19	NCB21EK-473	CER.CAPACITOR	0.047 25V	- 1
C20	NCB21EK-473	CER.CAPACITOR	0.047 25V	- 1
C21	NCB21EK-473	CER.CAPACITOR	0.047 25V	İ
LC1	SCV1804-222	EMI FILTER		
LC2	SCV1804-222	EMI FILTER		
LC3	SCV1804-222	EMI FILTER		-
LC4	SCV1804-222	EMI FILTER		
LC5	SCV1804-222	EMI FILTER		- [
LC6	SCV1804-222	EMI FILTER		
CN13	SSV2614-20	CONNECTOR	20PIN	
CN23	SCV1770-004	CONNECTOR	4PIN	
TP1	SCV1880-001	TEST POINT		

5.3 ISG BOARD ASSEMBLY LIST 03 SCK2450-03-00A

5.4	ISR BOARD ASSEMBLY	LIST	0 4	
	SCK2450-04-00A			04

Symbol No.	Part No.	Part Name	Descri	ption
SK1	SCV1217-010	I.C.SOCKET	for IC1	
,				
IC2	CXA1439M	I.C.(M)	SONY	
IC3	TC74VHC04FS	I.C.(M)	TOSHIBA	
IC5	CLC425AJE-T2	I.C.(M)	COMLINEAR	
			CONTENTE	
Q1	2SC4626(BC)	TRANSISTOR	MATSUSHITA	
Q2	3SK157	F.E.T.	NEC	
			1,120	
R1	NRSA63J-105	M.G.RESISTOR	1.0M	1/16W
R2	NRVA63D-391	M.F.RESISTOR	390	1/16W
R3	NRVA63D-184	M.F.RESISTOR	180K	1/16W
R4	NRVA63D-273	M.F.RESISTOR	27K	1/16W
R5	NRVA63D-682	M.F.RESISTOR	6.8K	1/16W
R6	NRVA63D-332	M.F.RESISTOR	3.3K	1/16W
R8	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R9	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R10	NRVA63D-911	M.F.RESISTOR	910	1/16W
R11	NRVA63D-180	M.F.RESISTOR	18	1/16W
R12	NRVA63D-180	M.F.RESISTOR	18	1/16W
R13	NRVA63D-180	M.F.RESISTOR	18 [.]	1/16W
R14	NRVA63D-180	M.F.RESISTOR	18	1/16W
R16	NRSA63J-ORO	M.G.RESISTOR	0	1/16W
R17	NRVA63D-220	M.F.RESISTOR	22	1/16W
R18	NRVA63D-561	M.F.RESISTOR	560	,1/16W
C1	NEF11VM-335	TAN.CAPACITOR	3.3	35V
C2	NCB21EK-473	CER.CAPACITOR	0.047	25V
C3	NCB21EK-473	CER.CAPACITOR	0.047	25V
C4	NEE50GM-476	TAN.CAPACITOR	47	4V
C5	NEF11AM-225	TAN.CAPACITOR	2.2	10V
C6 C7	NCB21EK-473	CER.CAPACITOR	0.047	25V
C8	NCB21EK-473 NCB21EK-473	CER.CAPACITOR	0.047	25V
C10	NCT06CH-330	CER.CAPACITOR	0.047	25V
C10	NCB21EK-473	CER.CAPACITOR	33P	50V
CII	NCD2TER-473	CER.CAPACITOR	0.047	25V
C12 C13	NCB21EK-473	CER.CAPACITOR	0.047	25V
C13	NCB21EK-473	CER.CAPACITOR	0.047	25V
C16	NCB21EK-473 NCB21EK-473	CER.CAPACITOR	0.047	25V
C16	NCB21EK-473 NCB21EK-473	CER.CAPACITOR	0.047	25V
C17	NCB21EK-473	CER.CAPACITOR	0.047	25V
C19	NCB21EK-473	CER.CAPACITOR CER.CAPACITOR	0.047	25V
C20	NCB21EK-473	CER.CAPACITOR	0.047	25V
C21	NCB21EK-473	CER.CAPACITOR	0.047	25V 25V
LC1	SCV1804-222	EMI FILTER		
LC2	SCV1804-222	EMI FILTER		
LC3	SCV1804-222	EMI FILTER		
LC4	SCV1804-222	EMI FILTER		
LC5	SCV1804-222	EMI FILTER		
LC6	SCV1804-222	EMI FILTER		
CN14	SSV2615-20	CONNECTOR	CODIN	
CN24	SCV1770-004	CONNECTOR CONNECTOR	20PIN 4PIN	

	CK2450-04-00	A	0 4	
Symbol No.	Part No.	Part Name	Descri	ption
SK1	SCV1217-010	I.C.SOCKET	for IC1	
IC2	CXA1439M	I.C.(M)	SONY	
IC3	TC74VHC04FS	I.C.(M)	TOSHIBA	
IC5	CLC425AJE-T2	I.C.(M)	COMLINEAR	
Q1	2SC4626(BC)	TRANSISTOR	MATSUSHITA	
R1	NRSA63J-105	M.G.RESISTOR	1.0M	1/16W
R2	NRVA63D-391	M.F.RESISTOR	390	1/16W
R3	NRVA63D-184	M.F.RESISTOR	180K	1/16W
R4	NRVA63D-273	M.F.RESISTOR	27K	1/16W
R5	NRVA63D-682	M.F.RESISTOR	6.8K	1/16W
R7	NRVA63D-101	M.F.RESISTOR	100	1/16W
R8	NRVA63D-751	M.F.RESISTOR	750	1/16W
R9	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R10	NRVA63D-561	M.F.RESISTOR	560	1/16W
R11	NRVA63D-180	M.F.RESISTOR	18	1/16W
R12	NRVA63D-180	M.F.RESISTOR	18	1/16W
R13	NRVA63D-180	M.F.RESISTOR	18	1/16W
R14	NRVA63D-180	M.F.RESISTOR	18	1/16W
R16	NRSA63J-ORO	M.G.RESISTOR	0	1/16W
R17	NRVA63D-220	M.F.RESISTOR	22	1/16W
R18	NRVA63D-561	M.F.RESISTOR	560	1/16W
C1	NEF11VM-335	TAN.CAPACITOR	3.3	35V
C2	NCB21EK-473	CER.CAPACITOR	0.047	25V
C3	NCB21EK-473	CER.CAPACITOR	0.047	25V
C4	NEE50GM-476	TAN.CAPACITOR	47	4V
C5	NEF11AM-225	TAN.CAPACITOR	2.2	10V
C6	NCB21EK-473	CER.CAPACITOR	0.047	25V
C7	NCB21EK-473	CER.CAPACITOR	0.047	25V
C8	NCB21EK-473	CER.CAPACITOR	0.047	25V
C11	NCB21EK-473	CER.CAPACITOR	0.047	25V
C12	NCB21EK-473	CER.CAPACITOR	0.047	25V
C13	NCB21EK-473	CER.CAPACITOR	0.047	25V
C15	NCB21EK-473	CER.CAPACITOR	0.047	25V
C16	NCB21EK-473	CER.CAPACITOR	0.047	25V
C17	NCB21EK-473	CER.CAPACITOR	0.047	25V
C18	NCB21EK-473	CER.CAPACITOR	0.047	25V
C19	NCB21EK-473	CER.CAPACITOR	0.047	25V
C20	NCB21EK-473	CER.CAPACITOR	0.047	25V
C21	NCB21EK-473	CER.CAPACITOR	0.047	25V
LC1	SCV1804-222	EMI FILTER		
LC2	SCV1804-222	EMI FILTER		1
LC3	SCV1804-222	EMI FILTER		
LC4	SCV1804-222	EMI FILTER		-
LC5	SCV1804-222	EMI FILTER		
LC6	SCV1804-222	EMI FILTER		İ
CNIE	\$\$\/261E-20	COMMISSION	005	
CN15 CN25	SSV2615-20 SCV1770-004	CONNECTOR CONNECTOR	20PIN 4PIN	j
TP1	SCV1880-001	TEST POINT		

5.5 PR BOARD ASSEMBLY LIST 0 5 SCK2443-01-00B

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Symbol No.	Part No.	Part Name	Description	Symbol No.	Part No.	Part Name	Descr	ription
IC2	TC7S86F	1.C.(M)	TOSHIBA	R1	NRVA63D-473	M.F.RESISTOR	47K	1/16W
IC3	TC7S04F	1.C.(M)	TOSHIBA	R2	NRVA63D-223	M.F.RESISTOR	22K	1/16W
IC4	MB88345PF	1.C.(M)	FUJITSU	R3	NRVA63D-223	M.F.RESISTOR	22K	1/16W
IC5	NJM78L05UA	I.C.(M)	JRC	R4	NRVA63D-223		ł .	
IC401	AD603AR	I.C.(M)				M.F.RESISTOR	22K	1/16W
			ANALOG DEVICES	R5	NRVA63D-274	M.F.RESISTOR	270K	1/16W
IC402	LMC6082IM	I.C.(M)	NATIONAL SEMICO	R6	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
IC403	TC4S66F	1.C.(M)	TOSHIBA	R7	NRVA63D-223	M.F.RESISTOR	22K	1/16W
IC404	MC74HC4053F	I.C,(M)	MOTOROLA	R8	NRVA63D-223	M.F.RESISTOR	22K	1/16W
IC405	CLC501AJE	I.C.(M)	COMLINEAR	R9	NRVA63D-473	M.F.RESISTOR	47K	1/16W
IC406	MC74HC4053F	I.C.(M)	MOTOROLA	R10	NRVA63D-473	M.F.RESISTOR	47K	1/16W
IC407	AD8011AR	I.C.(M)	ANALOG DEVICES	R11	NRVA63D-274	M.F.RESISTOR	270K	1/16W
IC408	TC4S66F	I.C.(M)	TOSHIBA	R12	NRVA63D-112	M.F.RESISTOR	1.1K	1/16W
IC409	TC4S66F	I.C.(M)	TOSHIBA	R13	NRVA63D-181	M.F.RESISTOR	180	1/16W
IC410	NJM062M	I.C.(M)	JRC	R14				
IC411	AD8011AR				NRVA63D-562	M.F.RESISTOR	5.6K	1/16W
		I.C.(M)	ANALOG DEVICES	R21	NRVA63D-223	M.F.RESISTOR	22K	1/16W
IC412	TC4S66F	I.C.(M)	TOSHIBA	R23	NRSA63J-ORO	M.G.RESISTOR	0	1/16W
IC413	NJM062M	I.C.(M)	JRC	R401	NRVA63D-122	M.F.RESISTOR	1.2K	1/16W
IC501	AD603AR	I.C.(M)	ANALOG DEVICES	R402	NRVA63D-123	M.F.RESISTOR	12K	1/16W
IC502	LMC60821M	I.C.(M)	NATIONAL SEMICO	R403	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W
IC503	TC4S66F	I.C.(M)	TOSHIBA	R404	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W
IC505	CLC501AJE	1.0 (84)	COMUNEAD	2405	1,5,4,000,450			
	1	1.C.(M)	COMLINEAR	R405	NRVA63D-472	M.F.RESISTOR	4.7K	1/16W
IC506	TL441CNS	I.C.(M)	TEXAS	R406	NRVA63D-332	M.F.RESISTOR	3.3K	1/16W
IC507	AD8011AR	I.C.(M)	ANALOG DEVICES	R407	NRSA63J-2R2	M.G.RESISTOR	2.2	1/16W
IC508	TC4S66F	I.C.(M)	TOSHIBA	R408	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W
IC509	TC4S66F	I.C.(M)	TOSHIBA	R410	NRVA63D-104	M.F.RESISTOR	100K	1/16W
IC510	NJM062M	I.C.(M)	JRC	R411	NRSA63J-105	M.G.RESISTOR	1.0M	
IC511	AD8011AR	I.C.(M)	ANALOG DEVICES	1			1	1/16W
IC512	TC4S66F			R412	NRVA63D-124	M.F.RESISTOR	120K	1/16W
		1.C.(M)	TOSHIBA	R413	NRVA63D-184	M.F.RESISTOR	180K	1/16W
IC513	NJM062M	I.C.(M)	JRC	R414	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W
IC601	AD603AR	I.C.(M)	ANALOG DEVICES	R415	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
IC602	LMC6082IM	I.C.(M)	NATIONAL SEMICO	R416	NRVA63D-471	M.F.RESISTOR	470	1/16W
IC603	TC4S66F	I.C.(M)	TOSHIBA	R417	NRVA63D-332	M.F.RESISTOR	3.3K	1/16W
IC605	CLC501AJE	I.C.(M)	COMLINEAR	R418	NRVA63D-273	M.F.RESISTOR	27K	1/16W
IC606	TL441CNS	I.C.(M)	TEXAS	R419	NRVA63D-821			
IC607	AD8011AR	I.C.(M)	ANALOG DEVICES			M.F.RESISTOR	820	1/16W
				R420	NRVA63D-103	M.F.RESISTOR	10K	1/16W
IC608	TC4S66F	I.C.(M)	TOSHIBA	R421	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W
IC609	TC4S66F	1.C.(M)	TOSHIBA	R422	NRVA63D-821	M.F.RESISTOR	820	1/16W
IC610	NJM062M	1.C.(M)	JRC	R423	NRVA63D-103	M.F.RESISTOR	10K	1/16W
IC611	AD8011AR	I.C.(M)	ANALOG DEVICES	R424	NRVA63D-561	M.F.RESISTOR	560	1/16W
IC612	TC4S66F	I.C.(M)	TOSHIBA	R425	NRVA63D-471	M.F.RESISTOR	470	1/16W
				11120	111174000 471	W.I .ILESISTOR	470	171000
IC613	NJM062M	1.C.(M)	JRC	R426	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W
				R427	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W
				R428	NRVA63D-101	M.F.RESISTOR	100	1/16W
Q1	DTA124EU	TRANSISTOR	ROHM	R429	NRVA63D-101			
Q401	2SC4626(BC)				i a	M.F.RESISTOR	8.2K	1/16W
		TRANSISTOR	MATSUSHITA	R430	NRVA63D-561	M.F.RESISTOR	560	1/16W
Q402	2SC4626(BC)	TRANSISTOR	MATSUSHITA	R431	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W
Q403	2SC4626(BC)	TRANSISTOR	MATSUSHITA	R432	NRVA63D-561	M.F.RESISTOR	560	1/16W
Q501	2SC4626(BC)	TRANSISTOR	MATSUSHITA	R433	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W
Q502	2SC4626(BC)	TRANSISTOR	MATSUSHITA	R434	NRVA63D-472	M.F.RESISTOR	4.7K	1/16W
Q503	2SC4626(BC)	TRANSISTOR	MATSUSHITA	R435	NRVA63D-821	M.F.RESISTOR	1	
Q601	2SC4626(BC)	TRANSISTOR		11400	MINAUSD-021	WI.F. NESISTON	820	1/16W
			MATSUSHITA					
Q602	2SC4626(BC)	TRANSISTOR	MATSUSHITA	R436	NRVA63D-182	M.F.RESISTOR	1.8K	1/16W
Q603	2SC4626(BC)	TRANSISTOR	MATSUSHITA	R437	NRVA63D-100	M.F.RESISTOR	10	1/16W
				R438	NRVA63D-183	M.F.RESISTOR	18K	1/16W
	-			R439	NRVA63D-363	M.F.RESISTOR	36K	1/16W
D401	MA142WK	DIODE	MATSUSHITA	R440	NRVA63D-104	M.F.RESISTOR	100K	1/16W
D-T-0 I		DIODE	MATSUSHITA					
	MA742	LOIODE	INIMIOUGHIA	R441	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
D402	MA742		MATCHICHTA	B 4	NIDULACOR CT.	A A PR DECISION OF		
D402 D501	MA142WK	DIODE	MATSUSHITA	R442	NRVA63D-821	M.F.RESISTOR	820	1/16W
D402 D501 D502	MA142WK MA742	DIODE DIODE	MATSUSHITA	R442 R443	NRVA63D-821 NRVA63D-821	M.F.RESISTOR M.F.RESISTOR	820 820	1/16W 1/16W
D402 D501	MA142WK	DIODE						

New New	Symbol	Part No.	Part Name	De	escription	Symbol	Part No.	Part Name	Dec	scription
NAMASSI-082 M.F. RESISTOR 0.8K 11/10W 8595 NAMASSI-102 M.F. RESISTOR 1.0K 11/16W 14/16W 1	No.					No.				
NAMASD-2-243 M.F. RESISTOR 24K 11/16W Re50 NRVASD-102 M.F. RESISTOR 10K 11/16W Re50 NRVASD-102 M.F. RESISTOR 10K 11/16W Re50 NRVASD-221 M.F. RESISTOR 10K 11/16W Re50 NRVASD-221 M.F. RESISTOR 10K 11/16W Re50 NRVASD-221 M.F. RESISTOR 10K 11/16W Re50 NRVASD-221 M.F. RESISTOR 10K 11/16W Re50 NRVASD-222 M.F. RESISTOR 10K 11/16W Re50 NRVASD-222 M.F. RESISTOR 10K 11/16W Re50 NRVASD-222 M.F. RESISTOR 10K 11/16W Re50 NRVASD-222 M.F. RESISTOR 10K 11/16W Re50 NRVASD-222 M.F. RESISTOR 10K 11/16W Re50 NRVASD-222 M.F. RESISTOR 10K 11/16W Re50 NRVASD-224 M.F. RESISTOR 10K 11/16W Re50 NRVASD-224 M.F. RESISTOR 10K 11/16W Re50 NRVASD-224 M.F. RESISTOR 10K 11/16W Re50 NRVASD-224 M.F. RESISTOR 10K 11/16W Re50 NRVASD-224 M.F. RESISTOR 10K 11/16W Re50 NRVASD-224 M.F. RESISTOR 10K 11/16W Re50 NRVASD-122 M.F. RESISTOR 10K 11/16W Re50 NRVASD-122 M.F. RESISTOR 10K 11/16W Re50 NRVASD-122 M.F. RESISTOR 10K 11/16W Re50 NRVASD-122 M.F. RESISTOR 10K 11/16W Re50 NRVASD-122 M.F. RESISTOR 10K 11/16W Re50 NRVASD-122 M.F. RESISTOR 10K 11/16W Re50 NRVASD-122 M.F. RESISTOR 10K 11/16W Re50 NRVASD-122 M.F. RESISTOR 10K 11/16W Re50 NRVASD-222 M.F. RESISTOR 10K 11/16W Re50 NR				1						
NAVASSD-123 M.F. RESISTOR 1.0K 1.19W	*									
NAVASD-0-102 M. F. RESISTOR 1.0K 1/16W R650 NAVASD-0-124 M. F. RESISTOR 1.0K 1/16W R654 NAVASD-0-124 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-124 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-124 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-124 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-124 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-124 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-124 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-124 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-124 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-124 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-124 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-124 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-124 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-124 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-124 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-124 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-124 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-125 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-125 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-125 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-125 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-125 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-125 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-125 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-125 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-125 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-125 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-125 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-125 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-125 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-125 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-125 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-125 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-125 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-125 M. F. RESISTOR 1.0K 1/16W R656 NAVASD-0-125 M. F. RESISTOR 1.0K 1/16W	_									
MAYASSD-021 M. F.RESISTOR 1.0K 1.79W R. RESISTOR 1.50K 1.719W R. RESISTOR 1.50K 1.719W R. RESISTOR 1.50K 1.719W R. RESISTOR 1.50K 1.719W R. RESISTOR										
MARCASS-221 M. F.RESISTOR 200 11/16W R565 NRVASS-0-222 M. F.RESISTOR 0 11/16W R656 NRVASS-0-222 M. F.RESISTOR 0 11/16W R656 NRVASS-0-222 M. F.RESISTOR 0 11/16W R656 NRVASS-0-222 M. F.RESISTOR 0 11/16W R656 NRVASS-0-222 M. F.RESISTOR 0 11/16W R656 NRVASS-0-222 M. F.RESISTOR 0 11/16W R657 NRVASS-0-222 M. F.RESISTOR 0 11/16W R657 NRVASS-0-223 M. F.RESISTOR 0 11/16W R657 NRVASS-0-223 M. F.RESISTOR 0 11/16W R657 NRVASS-0-223 M. F.RESISTOR 0 11/16W R658 NRVASS-0-223 M. F.RESISTOR 0 11/16W R658 NRVASS-0-223 M. F.RESISTOR 0 11/16W R658 NRVASS-0-223 M. F.RESISTOR 0 11/16W R658 NRVASS-0-223 M. F.RESISTOR 0 11/16W R658 NRVASS-0-223 M. F.RESISTOR 0 11/16W R659 NRVASS-0-223 M. F.RESISTOR 0 11/16W R659 NRVASS-0-223 M. F.RESISTOR 0 11/16W R659 NRVASS-0-223 M. F.RESISTOR 0 11/16W R669 NRVASS-0-224 M. F.RESISTOR 0 11/16W R669 NRVASS-0-224 M. F.RESISTOR 0 11/16W R669 NRVASS-0-224 M. F.RESISTOR 0 11/16W R669 NRVASS-0-224 M. F.RESISTOR 0 11/16W R669 NRVASS-0-224 M. F.RESISTOR 0 11/16W R669 NRVASS-0-224 M. F.RESISTOR 0 11/16W R669 NRVASS-0-224 M. F.RESISTOR 0 11/16W R669 NRVASS-0-224 M. F.RESISTOR 0 11/16W R669 NRVASS-0-224 M. F.RESISTOR 0 11/16W R669 NRVASS-0-224 M. F.RESISTOR 0 11/16W R669 NRVASS-0-224 M. F.RESISTOR 0 11/16W R669 NRVASS-0-224 M. F.RESISTOR 0 11/16W R669 NRVASS-0-224 M. F.RESISTOR 0 11/16W R669 NRV									1	
NAVASSD-164 M. F. RESISTOR 150K 176W R565 NRSA63-0-70 M. G. RESISTOR 0 176W R664 NRVA630-0-22 M. F. RESISTOR 220K 176W R565 NRVA630-0-72 M. F. RESISTOR 220K 176W R565 NRVA630-0-73 M. F. RESISTOR 100K 176W R565 NRVA630-0-73 M. F. RESISTOR 100K 176W R565 NRVA630-0-74 M. F. RESISTOR 100K 176W R565 NRVA630-0-74 M. F. RESISTOR 100K 176W R565 NRVA630-0-74 M. F. RESISTOR 100K 176W R565 NRVA630-0-74 M. F. RESISTOR 100K 176W R565 NRVA630-0-74 M. F. RESISTOR 100K 176W R565 NRVA630-0-74 M. F. RESISTOR 100K 176W R565 NRVA630-0-74 M. F. RESISTOR 100K 176W R565 NRVA630-0-72 M. F. RESISTOR 100										
MRYARABD-0422	1			1					Ł.	
R456							1		1 -	
R467 NAVABSD-124									i	
MRYA63D-103	N450	NRVA03D-472	W.F.RESISTON	4.78	1/1000	n00/	NHVA63D-224	M.F.RESISTOR	220K	1/1600
NEWASD-014 M.F. RESISTOR 100K 178W	R457	NRVA63D-224	M.F.RESISTOR	220K	1/16W	R558	NRVA63D-103	M.F.RESISTOR	10K	1/16W
NEVARSD-104 M.F. RESISTOR 100K 1718W R601 NEVARSD-122 M.F. RESISTOR 12K 1718W R603 NEVARSD-123 M.F. RESISTOR 12K 1718W R603 NEVARSD-223 M.F. RESISTOR 12K 1718W R603 NEVARSD-223 M.F. RESISTOR 2.2K 1718W R604 NEVARSD-223 M.F. RESISTOR 2.2K 1718W R606 NEVARSD-222 M.F. RESISTOR 2.2K 1718W R606 NEVARSD-223 M.F. RESISTOR 2.2K 1718W R606 NEVARSD-223 M.F. RESISTOR 2.2K 1718W R607 NEVARSD-223 M.F. RESISTOR 2.2K 1718W R607 NEVARSD-223 M.F. RESISTOR 3.3K 1718W R607 NEVARSD-224 M.F. RESISTOR 3.3K 1718W R608 NEVARSD-224 M.F. RESISTOR 3.3K 1718W R608 NEVARSD-224 M.F. RESISTOR 3.3K 1718W R610 NEVARSD-104 M.F. RESISTOR 3.0K 1718W R610 NEVARSD-104 M.F. RESISTOR 3.0K 1718W R610 NEVARSD-104 M.F. RESISTOR 3.0K 1718W R611 NEVARSD-104 M.F. RESISTOR 3.0K 1718W R613 NEVARSD-104 M.F. RESISTOR 3.0K 1718W R613 NEVARSD-104 M.F. RESISTOR 3.0K 1718W R614 NEVARSD-104 M.F. RESISTOR 3.0K 1718W R615 NEVARSD-104 M.F. RESISTOR 3.0K 1718W R616 NEVARSD-104 M.F. RESISTOR 3.0K 1718W R617 NEVARSD-104 M.F. RESISTOR 3.0K 1718W R618 NEVARSD-104 M.F. RESISTOR 3.0K 1718W R618 NEVARSD-104 M.F. RESISTOR 3.0K 1718W R618 NEVARSD-104 M.F. RESISTOR 3.0K 1718W R618 NEVARSD-105 M.F. RESISTOR 3.0K 1716W R618 NEVARSD-104 M.F. RESISTOR 3.0K 1716W R619 NEVARSD-105 M.F. RESISTOR 3.0K 1716W R619 NEVARSD-105 M.F. RESISTOR 3.0K 1716W R619 NEVARSD-105 M.F. RESISTOR 3.0K 1716W R620 NEVARSD-105 M.F. RESISTOR 3.0K 1716W R620 NEVARSD-105 M.F. RESISTOR 3.0K 1716W R620 NEVARSD-105 M.F. RESISTOR 3.0K 1716W R620 NEVARSD-105 M.F. RESISTOR 3.0K 1716W R620 NEVARSD-105 M.F.	R458	NRVA63D-103	M.F.RESISTOR		1/16W	R561	NRVA63D-274	M.F.RESISTOR	270K	1/16W
NEWASD-123 M.F. RESISTOR 12K 11/8W R602 NEWASD-123 M.F. RESISTOR 2.2K 11/8W R604 NEWASD-123 M.F. RESISTOR 2.2K 11/8W R604 NEWASD-122 M.F. RESISTOR 2.2K 11/8W R604 NEWASD-122 M.F. RESISTOR 2.2K 11/8W R606 NEWASD-122 M.F. RESISTOR 2.2K 11/8W R606 NEWASD-122 M.F. RESISTOR 2.2K 11/8W R606 NEWASD-122 M.F. RESISTOR 2.2K 11/8W R606 NEWASD-123 M.F. RESISTOR 2.2K 11/8W R606 NEWASD-123 M.F. RESISTOR 2.2K 11/8W R607 NEWASD-123 M.F. RESISTOR 2.2K 11/8W R608 NEWASD-124 M.F. RESISTOR 2.2K 11/8W R608 NEWASD-124 M.F. RESISTOR 2.2K 11/8W R608 NEWASD-124 M.F. RESISTOR 2.2K 11/8W R608 NEWASD-124 M.F. RESISTOR 2.2K 11/8W R608 NEWASD-124 M.F. RESISTOR 2.2K 11/8W R608 NEWASD-124 M.F. RESISTOR 2.2K 11/8W R608 NEWASD-124 M.F. RESISTOR 2.2K 11/8W R608 NEWASD-124 M.F. RESISTOR 2.2K 11/8W R608 NEWASD-124 M.F. RESISTOR 2.2K 11/8W R608 NEWASD-124 M.F. RESISTOR 2.2K 11/8W R609 NEWASD-124 M.F. RESISTOR 2.2K 11/8W R609 NEWASD-124 M.F. RESISTOR 2.2K 11/8W R609 NEWASD-124 M.F. RESISTOR 2.2K 11/8W R609 NEWASD-124 M.F. RESISTOR 2.2K 11/8W R609 NEWASD-124 M.F. RESISTOR 2.2K 11/8W R609 NEWASD-125 M.F. RESISTOR 2.2K 11/8W R609 NEWASD-125 M.F. RESISTOR 2.2K 11/8W R609 NEWASD-125 M.F. RESISTOR 2.2K 11/8W R609 NEWASD-125 M.F. RESISTOR 2.2K 11/8W R609 NEWASD-125 M.F. RESISTOR 2.2K 11/8W R609 NEWASD-125 M.F. RESISTOR 2.2K 11/8W R609 NEWASD-125 M.F. RESISTOR 2.2K 11/8W R609 NEWASD-125 M.F. RESISTOR 2.2K 11/8W R609 NEWASD-125 M.F. RESISTOR 2.2K 11/8W R609 NEWASD-125 M.F. RESISTOR 2.2K 11/8W R609 NEWASD-125 M.F. RESISTOR 2.2K 11/8W R609 NEWASD-125 M.F. RESISTOR 2.2K 11/8W R609 NEWASD-125 M.F. RESISTOR 2.2K 11/8W R609 NEWASD-125 M.F. RESISTOR 2.2K 11/8W R609 NEWAS	,				1/16W	R562	NRVA63D-104	M.F.RESISTOR	100K	1/16W
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BRID NRVA63D-104 M. F. RESISTOR 100K 1/16W	R506	NRVA63D-332	M.F.RESISTOR	3.3K	1/16W	R607	NRSA63J-2R2	M.G.RESISTOR	2.2	1/16W
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R538 NRVA63D-183 M.F.RESISTOR 18K 1/16W R639 NRVA63D-363 M.F.RESISTOR 36K 1/16W R640 NRVA63D-104 M.F.RESISTOR 100K 1/16W R640 NRVA63D-104 M.F.RESISTOR 100K 1/16W R641 NRVA63D-102 M.F.RESISTOR 1.0K 1/16W R641 NRVA63D-821 M.F.RESISTOR 820 1/16W R642 NRVA63D-821 M.F.RESISTOR 820 1/16W R643 NRVA63D-821 M.F.RESISTOR 820 1/16W R643 NRVA63D-821 M.F.RESISTOR 820 1/16W R644 NRVA63D-821 M.F.RESISTOR 820 1/16W R644 NRVA63D-821 M.F.RESISTOR 10K 1/16W R644 NRVA63D-103 M.F.RESISTOR 10K 1/16W R644 NRVA63D-103 M.F.RESISTOR 10K 1/16W R645 NRSA63J-105 M.G.RESISTOR 1.0M 1/16W R645 NRSA63J-105 M.G.RESISTOR 1.0M 1/16W R646 NRVA63D-562 M.F.RESISTOR 5.6K 1/16W R646				1	· ·		1	1		
R539 NRVA63D-363 M.F.RESISTOR 36K 1/16W R640 NRVA63D-104 M.F.RESISTOR 100K 1/16W R540 NRVA63D-104 M.F.RESISTOR 100K 1/16W R641 NRVA63D-102 M.F.RESISTOR 1.0K 1/16W R541 NRVA63D-102 M.F.RESISTOR 1.0K 1/16W R642 NRVA63D-821 M.F.RESISTOR 820 1/16W R542 NRVA63D-821 M.F.RESISTOR 820 1/16W R643 NRVA63D-821 M.F.RESISTOR 820 1/16W R543 NRVA63D-821 M.F.RESISTOR 820 1/16W R644 NRVA63D-103 M.F.RESISTOR 10K 1/16W R544 NRVA63D-123 M.F.RESISTOR 12K 1/16W R645 NRSA63J-105 M.G.RESISTOR 1.0M 1/16W R545 NRVA63D-333 M.F.RESISTOR 33K 1/16W R646 NRVA63D-562 M.F.RESISTOR 5.6K 1/16W R546 NRVA63D-662 M.F.RESISTOR 5.6K 1/16W R647 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.011</td> <td>77.077</td>									1.011	77.077
R540 NRVA63D-104 M.F.RESISTOR 100K 1/16W R641 NRVA63D-102 M.F.RESISTOR 1.0K 1/16W R541 NRVA63D-102 M.F.RESISTOR 1.0K 1/16W R642 NRVA63D-821 M.F.RESISTOR 820 1/16W R542 NRVA63D-821 M.F.RESISTOR 820 1/16W R643 NRVA63D-821 M.F.RESISTOR 820 1/16W R543 NRVA63D-821 M.F.RESISTOR 820 1/16W R644 NRVA63D-103 M.F.RESISTOR 10K 1/16W R544 NRVA63D-123 M.F.RESISTOR 12K 1/16W R645 NRSA63J-105 M.G.RESISTOR 1.0M 1/16W R545 NRVA63D-333 M.F.RESISTOR 33K 1/16W R646 NRVA63D-562 M.F.RESISTOR 5.6K 1/16W R546 NRVA63D-662 M.F.RESISTOR 5.6K 1/16W R647 NRVA63D-682 M.F.RESISTOR 6.8K 1/16W	1					1	1	1		
R541 NRVA63D-102 M.F.RESISTOR 1.0K 1/16W R642 NRVA63D-821 M.F.RESISTOR 820 1/16W R542 NRVA63D-821 M.F.RESISTOR 820 1/16W R643 NRVA63D-821 M.F.RESISTOR 820 1/16W R543 NRVA63D-821 M.F.RESISTOR 820 1/16W R644 NRVA63D-103 M.F.RESISTOR 10K 1/16W R544 NRVA63D-123 M.F.RESISTOR 12K 1/16W R645 NRSA63J-105 M.G.RESISTOR 1.0M 1/16W R545 NRVA63D-333 M.F.RESISTOR 33K 1/16W R646 NRVA63D-562 M.F.RESISTOR 5.6K 1/16W R546 NRVA63D-662 M.F.RESISTOR 5.6K 1/16W R647 NRVA63D-682 M.F.RESISTOR 6.8K 1/16W										
R542 NRVA63D-821 M.F.RESISTOR 820 1/16W R643 NRVA63D-821 M.F.RESISTOR 820 1/16W R543 NRVA63D-821 M.F.RESISTOR 820 1/16W R644 NRVA63D-103 M.F.RESISTOR 10K 1/16W R544 NRVA63D-123 M.F.RESISTOR 12K 1/16W R645 NRSA63J-105 M.G.RESISTOR 1.0M 1/16W R545 NRVA63D-333 M.F.RESISTOR 33K 1/16W R646 NRVA63D-562 M.F.RESISTOR 5.6K 1/16W R546 NRVA63D-662 M.F.RESISTOR 5.6K 1/16W R647 NRVA63D-682 M.F.RESISTOR 6.8K 1/16W										
R543 NRVA63D-821 M.F.RESISTOR 820 1/16W R644 NRVA63D-103 M.F.RESISTOR 10K 1/16W R544 NRVA63D-123 M.F.RESISTOR 12K 1/16W R645 NRSA63J-105 M.G.RESISTOR 1.0M 1/16W R545 NRVA63D-333 M.F.RESISTOR 33K 1/16W R646 NRVA63D-562 M.F.RESISTOR 5.6K 1/16W R546 NRVA63D-562 M.F.RESISTOR 5.6K 1/16W R647 NRVA63D-682 M.F.RESISTOR 6.8K 1/16W							1	1	1	1/16W
R544 NRVA63D-123 M.F.RESISTOR 12K 1/16W R645 NRSA63J-105 M.G.RESISTOR 1.0M 1/16W R545 NRVA63D-333 M.F.RESISTOR 33K 1/16W R646 NRVA63D-562 M.F.RESISTOR 5.6K 1/16W R546 NRVA63D-562 M.F.RESISTOR 5.6K 1/16W R647 NRVA63D-682 M.F.RESISTOR 6.8K 1/16W				1					820	1/16W
R545 NRVA63D-333 M.F.RESISTOR 33K 1/16W R646 NRVA63D-562 M.F.RESISTOR 5.6K 1/16W R546 NRVA63D-662 M.F.RESISTOR 6.8K 1/16W					1			· ·	10K	1/16W
R546 NRVA63D-562 M.F.RESISTOR 5.6K 1/16W R647 NRVA63D-682 M.F.RESISTOR 6.8K 1/16W			1					.1	1.0M	1/16W
						1				1/16W
R547 NRVA63D-682 M.F.RESISTOR 6.8K 1/16W R648 NRVA63D-183 M.F.RESISTOR 18K 1/16W					· ·				,	
	R547	NRVA63D-682	M.F.RESISTOR	6.8K	1/16W	R648	NRVA63D-183	M.F.RESISTOR	18K	1/16W

Symbol No.	Part No.	Part Name	De	scription	Symbol No.	Part No.	Part Name	Description	n
R649	NRVA63D-183	M.F.RESISTOR	18K	1/16W	C522	NCB31CK-473	CER.CAPACITOR	0.047	16V
R650	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W	C523	NCB31CK-473	CER.CAPACITOR		16V
R651	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W	C524	NCB31CK-473	CER.CAPACITOR	0.047	
R652	NRVA63D-221	M.F.RESISTOR	220	1/16W	0024	NCDSTCK 473	CEN.CAPACITOR	0.047	16V
R653	NRVA63D-154	M.F.RESISTOR	150K	1/16W	C525	NCT06CH-7R0	CER CARACITOR	7.00	E0) (
R654	NRVA63D-822	M.F.RESISTOR	8.2K	1/16W	C526		CER.CAPACITOR		50V
R656	NRVA63D-472	M.F.RESISTOR	4.7K)	NCT06CH-331	CER.CAPACITOR		50V
R657	NRVA63D-224	M.F.RESISTOR	220K	1/16W	C601	NCB31CK-473	CER.CAPACITOR		16V
R658	NRVA63D-103			1/16W	C602	NCB31CK-473	CER.CAPACITOR		16V
R661	NRVA63D-274	M.F.RESISTOR	10K	1/16W	C603	NCB31CK-473	CER.CAPACITOR		16V
11001	WIIVA03D-274	M.F.RESISTOR	270K	1/16W	C604	NCB31CK-473	CER.CAPACITOR	1	16V
R662	NRVA63D-104	M E DECICEOD	40014		C605	NCB21HK-103	CER.CAPACITOR		50V
nooz	NRVA63D-104	M.F.RESISTOR	100K	1/16W	C606	NCB31CK-473	CER.CAPACITOR	0.047	16V
					C607	NCB31CK-473	CER.CAPACITOR	0.047	16V
0.4					C610	NCB31CK-473	CER.CAPACITOR	0.047	16V
C1	NEE51AM-476	TAN.CAPACITOR	47	10V					
C2	NEE51AM-476	TAN.CAPACITOR	47	10V	C611	NCB31CK-473	CER.CAPACITOR	0.047	16V
C3	NCB31CK-473	CER.CAPACITOR	0.047	16V	C613	NCB31CK-473	CER.CAPACITOR		16V
C4	NCB31CK-473	CER.CAPACITOR	0.047	16V	C614	NCB31CK-473	CER.CAPACITOR		16V
C5	NCB31CK-473	CER.CAPACITOR	0.047	16V	C615	NCB31CK-473	CER.CAPACITOR		16V
C6	NEE51AM-106	TAN.CAPACITOR	10	10V	C617	NCB31CK-473	CER.CAPACITOR		16V
C7	NCB31CK-473	CER.CAPACITOR	0.047	16V	C618	NCB31CK-473	CER.CAPACITOR		
C9	NCB31CK-473	CER.CAPACITOR	0.047	16V	C619	NCB31CK-473	CER.CAPACITOR		16V
C11	NEE51AM-476	TAN.CAPACITOR	47	10V	C620	NCB31CK-473			16V
C12	NEE51CM-225	TAN.CAPACITOR	2.2	16V	C621		CER.CAPACITOR		16V
		IMM. SALAGITON	2.2	100		NCB31CK-473	CER.CAPACITOR		16V
C17	NCB31CK-473	CER CARACITOR	0.047	4014	C622	NCB31CK-473	CER.CAPACITOR	0.047	16V
C401	NCB31CK-473	CER.CAPACITOR	0.047	16V					
		CER.CAPACITOR	0.047	16V	C623	NCB31CK-473	CER.CAPACITOR	0.047	16V
C402	NCB31CK-473	CER.CAPACITOR	0.047	16V	C624	NCB31CK-473	CER.CAPACITOR	0.047	16V
C403	NCB31CK-473	CER.CAPACITOR	0.047	16V	C625	NCT06CH-7R0	CER.CAPACITOR	7.0P	50V
C404	NCB31CK-473	CER.CAPACITOR	0.047	16V	C626	NCT06CH-331	CER.CAPACITOR	330P	50V
C405	NCB21HK-103	CER.CAPACITOR	0.010	50V					
C406	NCB31CK-473	CER.CAPACITOR	0.047	16V		_			
C407	NCB31CK-473	CER.CAPACITOR	0.047	16V	L1	SCV2662-027	FERRITE BEADS		
C410	NCB31CK-473	CER.CAPACITOR	0.047	16V	L2	SCV2662-027	FERRITE BEADS		
C411	NCB31CK-473	CER.CAPACITOR	0.047	16V	L401	SCV2662-027	FERRITE BEADS		
					L402	SCV2662-027	FERRITE BEADS		
C413	NCB31CK-473	CER.CAPACITOR	0.047	16V	L403	SCV2662-027	FERRITE BEADS		
C414	NCB31CK-473	CER.CAPACITOR	0.047	16V	L404	SCV2662-027	FERRITE BEADS		
C415	NCB31CK-473	CER.CAPACITOR	0.047	16V	L405	SCV1950-3R9	PEAKING COIL	3.9µH	
C417	NCB31CK-473	CER.CAPACITOR	0.047	16V	L501	SCV2662-027	FERRITE BEADS	3.9μΠ	
C419	NCB31CK-473	CER.CAPACITOR	0.047	16V	L502	SCV2662-027	FERRITE BEADS		
C420	NCB31CK-473	CER.CAPACITOR	0.047	16V	L502	SCV2662-027	FERRITE BEADS		
C421	NCB31CK-473	CER.CAPACITOR	0.047	16V	1 2003	3072002-027	FERRITE BEADS		
C424	NCB31CK-473	CER.CAPACITOR	0.047		1504	201/0000 007			
C425	NCTO6CH-7RO			16V	L504	SCV2662-027	FERRITE BEADS		
C426	NCT06CH-331	CER.CAPACITOR CER.CAPACITOR	7.0P	50V	L505	SCV1950-3R9	PEAKING COIL	3.9µH	
0420	NC100CH-331	CER.CAPACITOR	330P	50V	L601	SCV2662-027	FERRITE BEADS		
0504	1100004014 400				L602	SCV2662-027	FERRITE BEADS		
C501	NCB31CK-473	CER.CAPACITOR	0.047	16V	L603	SCV2662-027	FERRITE BEADS		
C502	NCB31CK-473	CER.CAPACITOR	0.047	16V	L604	SCV2662-027	FERRITE BEADS		
C503	NCB31CK-473	CER.CAPACITOR	0.047	16V	L605	SCV1950-3R9	PEAKING COIL	3.9µH	
C504	NCB31CK-473	CER.CAPACITOR	0.047	16V					
C505	NCB21HK-103	CER.CAPACITOR	0.010	50V					
C506	NCB31CK-473	CER.CAPACITOR	0.047	16V	DL401	SCV2635-001	L.P.F.	14.3 MHz TRAP	
C507	NCB31CK-473	CER.CAPACITOR	0.047	16V	DL501	SCV2635-001	L.P.F.	14.3 MHz TRAP	
C510	NCB31CK-473	CER.CAPACITOR	0.047	16V	DL601	SCV2635-001	L.P.F.	14.3 MHz TRAP	
C511	NCB31CK-473	CER.CAPACITOR	0.047	16V	52001	2012000 001	E-1 -1 -	17.5 WITZ TRAP	
C513	NCB31CK-473	CER.CAPACITOR	0.047	16V					
/•			0.047	100	CNIO	CUB100M 045	CONNECTOR	L CARDINA	
C514	NCB31CK-473	CER CARACITOR	0.047	101	CN3	CHB102W-24R	CONNECTOR	24PIN	
		CER.CAPACITOR	0.047	16V	CN4	CHB102W-14R	CONNECTOR	14PIN	
C515	NCB31CK-473	CER.CAPACITOR	0.047	16V	CN23	SCV1770-004	CONNECTOR	4PIN	
C517	NCB31CK-473	CER.CAPACITOR	0.047	16V	CN24	SCV1770-004	CONNECTOR	4PIN	
C518	NCB31CK-473	CER.CAPACITOR	0.047	16V	CN25	SCV1770-004	CONNECTOR	4PIN	
C519	NCB31CK-473	CER.CAPACITOR	0.047	16V					
C520	NCB31CK-473	CER.CAPACITOR	0.047	16V					
C521	NCB31CK-473	CER.CAPACITOR	0.047	16V	TP401	SCV1880-001	TEST POINT	LP B	

5.6 CE BOARD ASSEMBLY LIST 0 6 SCK2443-02-NOB (U) SCK2443-02-POB (E)

AMMA IN B	101	TC7S04F	I.C.(M)	TOSHIBA	
AMMA OUT B	IC2	TC7S04F	I.C.(M)	TOSHIBA	ľ
P G	IC401	AD8011AR	1.C.(M)	ANALOG DEVICES	
AMMA IN G	IC402	MC74HC4053F	I.C.(M)	MOTOROLA	
AMMA OUT G	IC501	AD8011AR	I.C.(M)	ANALOG DEVICES	1
P R	IC502	TK16031MTL	I.C.(M)	TOKO DENSI	
AMMA IN R	IC503	AD8011AR	I.C.(M)	ANALOG DEVICES	
AMMA OUT R	IC504	LMC6082IM	1.C.(M)	NATIONAL SEMICO	-
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	IC505	TC4S66F	I.C.(M)	TOSHIBA	
	IC506	TC4S66F	I.C.(M)	TOSHIBA	
	10000	1040001	1.0.(101)	TOSTRIBA	
	IC601	AD8011AR	I.C.(M)	ANALOG DEVICES	
	IC701	LMC6082IM	1.C.(M)	NATIONAL SEMICO	
	IC702	TC4S66F	I.C.(M)	TOSHIBA	
	IC702	AD8011AR	I.C.(M)	ANALOG DEVICES	
	IC704	TC4S66F	1.C.(M)	TOSHIBA	-
	IC705	LMC6082IM	I.C.(M)	NATIONAL SEMICO	
	IC706	TC4S66F	1.C.(M)	TOSHIBA	1
	IC801	AD8011AR	I.C.(M)	ANALOG DEVICES	
	IC802	AD8011AR	I.C.(M)	ANALOG DEVICES	1
	IC802	NJM5532M	I.C.(M)	JRC	Į
	10003	14314(3332)41	1.6.(101)	Jano	- 1
	10804	AD8011AR	1.C.(M)	ANALOG DEVICES	- 1
*	IC805	MLT04GS	I.C.(M)	ANALOG DEVICES	-
	10806	AD8011AR	I.C.(M)	ANALOG DEVICES	
	IC807	MC14052BF	I.C.(M)	MOTOROLA	- (
	10808	MC14052BF	I.C.(M)	MOTOROLA	
	10809	AD8002AR	1.C.(M)	ANALOG DEVICES	
	IC810	AD8002AR	I.C.(M)	ANALOG DEVICES	
	,,,,,,,	/ DOOG ZAIT	1.0.(141)	ANALOG DEVICES	1
					- }
	Q1	2SA1790(BC)	TRANSISTOR	MATSUSHITA	-
	Q2	2SC4626(BC)	TRANSISTOR	MATSUSHITA	1
	03	3SK157	F.E.T.	NEC	
	Q4	3SK157	F.E.T.	NEC	1
	Q5	2SA1790(BC)	TRANSISTOR	MATSUSHITA	- }
	Q6	DTC124EU	TRANSISTOR	ROHM	
*	0401	2SA1790(BC)	TRANSISTOR	MATSUSHITA	1
	0402	2SC4626(BC)	TRANSISTOR	MATSUSHITA	ı
	0403	3SK157	F.E.T.	NEC	
	Q404	2SA1790(BC)	TRANSISTOR	MATSUSHITA	1.
		25,11,100,150,	110.0001011	WATER	
	Q405	2SA1790(BC)	TRANSISTOR	MATSUSHITA	1
	Q406	2SC4626(BC)	TRANSISTOR	MATSUSHITA	1
	Q407	2SC4626(BC)	TRANSISTOR	MATSUSHITA	
	Q501	2SA1790(BC)	TRANSISTOR	MATSUSHITA	- {
	Q502	2SC4626(BC)	TRANSISTOR	MATSUSHITA	
	Q503	3SK157	F.E.T.	NEC	
	Q504	2SA1790(BC)	TRANSISTOR	MATSUSHITA	
	0505	2SA1790(BC)	TRANSISTOR	MATSUSHITA	

	SCK2443-02-NOB (U) SCK2443-02-POB (E) 06						06
Symbol No.	Part No.	Part Name	Description	Symbol No.	Part No.	Part Name	Description
TP402	SCV1880-001	TEST POINT	GAMMA IN B	IC1	TC7S04F	I.C.(M)	TOSHIBA
TP403	SCV1880-001	TEST POINT	GAMMA OUT B	IC2	TC7S04F	I.C.(M)	TOSHIBA
TP501	SCV1880-001	TEST POINT	LP G	IC401	AD8011AR	1.C.(M)	ANALOG DEVICES
TP502	SCV1880-001	TEST POINT	GAMMA IN G	IC402	MC74HC4053F	I.C.(M)	MOTOROLA
TP503	SCV1880-001	TEST POINT	GAMMA OUT G	IC501	AD8011AR	I.C.(M)	ANALOG DEVICES
				1 1		1	
TP601	SCV1880-001	TEST POINT	LP R	IC502	TK16031MTL	I.C.(M)	TOKO DENSI
TP602	SCV1880-001	TEST POINT	GAMMA IN R	IC503	AD8011AR	I.C.(M)	ANALOG DEVICES
TP603	SCV1880-001	TEST POINT	GAMMA OUT R	IC504	LMC6082IM	1.C.(M)	NATIONAL SEMICO
				IC505	TC4S66F	I.C.(M)	TOSHIBA
				IC506	TC4S66F	I.C.(M)	TOSHIBA
				IC601	AD8011AR	I.C.(M)	ANALOG DEVICES
ĺ	Į.			IC701	LMC6082IM	1.C.(M)	NATIONAL SEMICO
				IC702	TC4S66F	I.C.(M)	TOSHIBA
			1	IC703	AD8011AR	I.C.(M)	ANALOG DEVICES
				IC704	TC4S66F	1.C.(M)	TOSHIBA
	1	1		IC705	LMC6082IM	I.C.(M)	NATIONAL SEMICO
				IC706	TC4S66F	1.C.(M)	TOSHIBA
1	1		1	IC801	AD8011AR	I.C.(M)	ANALOG DEVICES
	1			IC802	AD8011AR	I.C.(M)	
1	1		1	1 1			ANALOG DEVICES
				IC803	NJM5532M	I.C.(M)	JRC
				10804	AD8011AR	1.C.(M)	ANALOG DEVICES
				IC805	MLT04GS	I.C.(M)	ANALOG DEVICES
İ				10806	AD8011AR	I.C.(M)	ANALOG DEVICES
			1			I.C.(M)	
				IC807	MC14052BF		MOTOROLA
				IC808	MC14052BF	I.C.(M)	MOTOROLA
<u> </u>	}			10809	AD8002AR	1.C.(M)	ANALOG DEVICES
				IC810	AD8002AR	I.C.(M)	ANALOG DEVICES
				01 02 03 04 05 06 0401 0402 0403 0404	2SA1790(BC) 2SC4626(BC) 3SK157 3SK157 2SA1790(BC) DTC124EU 2SA1790(BC) 2SC4626(BC) 3SK157 2SA1790(BC)	TRANSISTOR TRANSISTOR F.E.T. F.E.T. TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR F.E.T. TRANSISTOR	MATSUSHITA MATSUSHITA NEC NEC MATSUSHITA ROHM MATSUSHITA MATSUSHITA NEC MATSUSHITA
			1	DADE	2041700/001	TRANCISTOR	MATCHICHITA
	,			Q405 0406	2SA1790(BC)	TRANSISTOR	MATSUSHITA
				Q406	2SC4626(BC)	TRANSISTOR	MATSUSHITA
]	1			Q407	2SC4626(BC)	TRANSISTOR	MATSUSHITA
Į		1		Q501	2SA1790(BC)	TRANSISTOR	MATSUSHITA
I	1			Q502	2SC4626(BC)	TRANSISTOR	MATSUSHITA
ļ			}	Q503	3SK157	F.E.T.	NEC
[Q504	2SA1790(BC)	TRANSISTOR	MATSUSHITA
1				Q505	2SA1790(BC)	TRANSISTOR	MATSUSHITA
				0506	2SC4626(BC)	TRANSISTOR	MATSUSHITA
				Q507	2SC4626(BC)	TRANSISTOR	MATSUSHITA
				1 4307	2004020(00)	HANSISTON	MATGUSTITA
				Q508	2SC4626(BC)	TRANSISTOR	MATSUSHITA
				Q510	2SJ163(Q.R)	F.E.T.	MATSUSHITA
				Q601	2SA1790(BC)	TRANSISTOR	MATSUSHITA
				Q602	2SC4626(BC)	TRANSISTOR	MATSUSHITA
l				Q603	3SK157	F.E.T.	NEC
				Q604	2SA1790(BC)	TRANSISTOR	MATSUSHITA
1				Q605	2SA1790(BC)	TRANSISTOR	MATSUSHITA
		* .		0606	2SC4626(BC)	TRANSISTOR	MATSUSHITA
1						1	
]				Q607 Q702	2SC4626(BC) 2SC4626(BC)	TRANSISTOR TRANSISTOR	MATSUSHITA MATSUSHITA
				Q703	2SC4626(BC)	TRANSISTOR	MATSHSHITA
L				4/03	2304020(80)	INAIVSISTUR	MATSUSHITA

Symbol No.	Part No.	Part Name	Descrip	otion	Symbol No.	Part No.	Part Name	De	scription
Q704	2SJ163(Q.R)	F.E.T.	MATSUSHITA		R33	NRVA63D-473	M.F.RESISTOR	47K	1/16W
Q705	2SK374(Q.R)	F.E.T.	MATSUSHITA	l	R40	NRVA63D-104	M.F.RESISTOR	100K	1/16W
Q706	2SC4626(BC)	TRANSISTOR	MATSUSHITA		R401	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
Q707	2SA1790(BC)	TRANSISTOR	MATSUSHITA		R402	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
Q708	2SA1790(BC)	TRANSISTOR	MATSUSHITA		R403	NRVA63D-152	M.F.RESISTOR		
Q709	2SC4626(BC)	TRANSISTOR	MATSUSHITA	1				1.5K	1/16W
Q710	2SA1790(BC)		,		R404	NRVA63D-101	M.F.RESISTOR	100	1/16W
Q711		TRANSISTOR	MATSUSHITA		R405	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W
	2SA1790(BC)	TRANSISTOR	MATSUSHITA		R406	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W
Q712	2SC4626(BC)	TRANSISTOR	MATSUSHITA						
				İ	R407	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W
Q713	2SA1790(BC)	TRANSISTOR	MATSUSHITA		R408	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W
Q714	2SA1790(BC)	TRANSISTOR	MATSUSHITA		R409	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W
Q715	2SC4626(BC)	TRANSISTOR	MATSUSHITA		R410	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W
Q716	2SC4626(BC)	TRANSISTOR	MATSUSHITA.		R412	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W
Q717	2SC4626(BC)	TRANSISTOR	MATSUSHITA		R413	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W
Q718	2SK374(Q.R)	F.E.T.	MATSUSHITA		R414	NRVA63D-102			
Q720	2SJ163(Q.R)	F.E.T.	MATSUSHITA				M.F.RESISTOR	1.0K	1/16W
Q721	2SJ163(Q,R)	F.E.T.			R415	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W
			MATSUSHITA		R434	NRVA63D-101	M.F.RESISTOR	100	1/16W
Q722	2SC4626(BC)	TRANSISTOR	MATSUSHITA		R501	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
Q723	2SA1790(BC)	TRANSISTOR	MATSUSHITA						
					R502	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
Q801	2SA1790(BC)	TRANSISTOR	MATSUSHITA	1	R503	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W
Q802	2SC4626(BC)	TRANSISTOR	MATSUSHITA		R504	NRVA63D-101	M.F.RESISTOR	100	1/16W
				}	R505	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W
				1	R506	NRVA63D-272	M.F.RESISTOR	2.7K	
D1	MA143A	DIODE	MATSUSHITA	1	R507	NRVA63D-272			1/16W
D701	MA143A	DIODE					M.F.RESISTOR	2.7K	1/16W
D701			MATSUSHITA		R508	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W
D/02	MA742	DIODE	MATSUSHITA		R509	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W
					R510	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W
		•			R512	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W
R1	NRVA63D-223	M.F.RESISTOR	22K	1/16W					
R2	NRVA63D-223	M.F.RESISTOR	22K	1/16W	R513	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W
R3	NRVA63D-223	M.F.RESISTOR	22K	1/16W	R514	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R4	NRVA63D-223	M.F.RESISTOR	22K	1/16W	R515	NRVA63D-183	M.F.RESISTOR	18K	1/16W
R5	NRVA63D-473	M.F.RESISTOR	47K	1/16W	R516	NRSA63J-ORO	M.G.RESISTOR	0	1/16W
R6	NRVA63D-473	M.F.RESISTOR	47K	1/16W	R518	NRVA63D-393			
R7	NRVA63D-473	M.F.RESISTOR	47K	1/16W			M.F.RESISTOR	39K	1/16W
R8	NRVA63D-472	M.F.RESISTOR	4.7K		R519	NRVA63D-393	M.F.RESISTOR	39K	1/16W
R9			T .	1/16W	R520	NRVA63D-103	M.F.RESISTOR	10K	1/16W
	NRVA63D-123	M.F.RESISTOR	12K	1/16W	R521	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R10	NRVA63D-153	M.F.RESISTOR	15K	1/16W	R522	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W
					R523	NRVA63D-822	M.F.RESISTOR	8.2K	1/16W
R11	NRVA63D-103	M.F.RESISTOR	10K	1/16W					
R12	NRVA63D-153	M.F.RESISTOR	15K	1/16W	R524	NRVA63D-332	M.F.RESISTOR	3.3K	1/16W
R13	NRVA63D-821	M.F.RESISTOR	820	1/16W	R525	NRVA63D-223	M.F.RESISTOR	22K	1/16W
R14	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W	R526	NRVA63D-330	M.F.RESISTOR	330	1/16W
R15	NRVA63D-472	M.F.RESISTOR	4.7K	1/16W	R527	NRVA63D-222	M.F.RESISTOR	1	
R16	NRVA63D-104	M.F.RESISTOR	100K	1/16W	R528	NRVA63D-222		2.2K	1/16W
R17	NRVA63D-273						M.F.RESISTOR	560	1/16W
		M.F.RESISTOR	27K	1/16W	R529	NRVA63D-122	M.F.RESISTOR	1.2K	1/16W
R18	NRVA63D-100	M.F.RESISTOR	10	1/16W	R530	NRVA63D-472	M.F.RESISTOR	4.7K	1/16W
R19	NRSA63J-105	M.G.RESISTOR	1.0M	1/16W	R531	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R20	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W	R532	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W
					R533	NRVA63D-100	M.F.RESISTOR	10	1/16W
R21	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W					
R22	NRVA63D-912	M.F.RESISTOR	9.1K	1/16W	R534	NRVA63D-101	M.F.RESISTOR	100	1/16W
R23	NRVA63D-822	M.F.RESISTOR	8.2K	1/16W	R535	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W
R24	NRVA63D-103	M.F.RESISTOR	10K	1/16W	R601	NRVA63D-102	M.F.RESISTOR		
R25	NRVA63D-101	M.F.RESISTOR	100					1.0K	1/16W
				1/16W	R602	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R26	NRVA63D-101	M.F.RESISTOR	100	1/16W	R603	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W
R27	NRVA63D-154	M.F.RESISTOR	150K	1/16W	R604	NRVA63D-101	M.F.RESISTOR	100	1/16W
R28	NRVA63D-562	M.F.RESISTOR	5.6K	1/16W	R605	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W
R29	NRVA63D-123	M.F.RESISTOR	12K	1/16W	R606	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W
R30	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W	R607	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W
•					R608	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W
R31	NRVA63D-562	M.F.RESISTOR	5.6K	1/16W					,, 1044
R32	NRVA63D-103	M.F.RESISTOR	10K	1/16W	R609	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W
				.,	11000	MITTAGOD 2/2	W.J. ITEOIOTOR	2.//	1/1000

Symbol No.	Part No.	Part Name	De	escription
R610	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W
R612	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W
R613	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W
R614	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R615	NRVA63D-222	M.F.RESISTOR	2.2K	
R634	NRVA63D-101	M.F.RESISTOR	100	1/16W
R701	NRVA63D-101	M.F.RESISTOR		1/16W
R702	NRVA63D-122		1.0K	1/16W
R702	NRSA63J-0R0	M.F.RESISTOR	1.2K	1/16W
11703	NASA033-0A0	M.G.RESISTOR	0	1/16W
R704	NRVA63D-682	M.F.RESISTOR	6.8K	1/16W
R706	NRSA63J-0R0	M.G.RESISTOR	0	1/16W
R707	NRVA63D-563	M.F.RESISTOR	56K	1/16W
R708	NRVA63D-472	M.F.RESISTOR	4.7K	1/16W
R709	NRVA63D-181	M.F.RESISTOR	180	1/16W
R710	NRVA63D-122	M.F.RESISTOR	1.2K	1/16W
R711	NRVA63D-472	M.F.RESISTOR	4.7K	1/16W
R712	NRVA63D-332	M.F.RESISTOR	3.3K	1/16W
R713	NRVA63D-221	M.F.RESISTOR	220	1/16W
R714	NRVA63D-392	M.F.RESISTOR	3.9K	1/16W
				.71011
R715	NRVA63D-332	M.F.RESISTOR	3.3K	1/16W
R716	NRVA63D-182	M.F.RESISTOR	1.8K	1/16W
R717	NRVA63D-103	M.F.RESISTOR	10K	1/16W
R718	NRVA63D-822	M.F.RESISTOR	8.2K	1/16W
R719	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W
R720	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W
R721	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R722	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R723	NRVA63D-561	M.F.RESISTOR	560	1/16W
R724	NRVA63D-561	M.F.RESISTOR	560	1/16W
R725	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W
R726	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W
R727	NRVA63D-392	M.F.RESISTOR	3.9K	1/16W
R728	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W
R729	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W
R730	NRVA63D-152	M.F.RESISTOR	1.5K	
R731	NRVA63D-392	M.F.RESISTOR	3.9K	1/16W
R732	NRVA63D-222	M.F.RESISTOR		1/16W
R733	NRVA63D-222		2.2K	1/16W
R734	NRVA63D-122	M.F.RESISTOR M.F.RESISTOR	2.2K 1.2K	1/16W 1/16W
D705	NDM COD COO			
R735	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W
R736	NRVA63D-563	M.F.RESISTOR	56K	1/16W
R737	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W
R738	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W
R739	NRVA63D-392	M.F.RESISTOR	3.9K	1/16W
R740	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R741	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W
R742	NRVA63D-332	M.F.RESISTOR	3.3K	1/16W
R745	NRVA63D-123	M.F.RESISTOR	12K	1/16W
R746	NRVA63D-123	M.F.RESISTOR	12K	1/16W
R747	NRVA63D-152	M.F.RESISTOR	1 50	1/1014
	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W
	NRVA63D-132		1.5K	1/16W
	_	M.F.RESISTOR	1.3K	1/16W
	NRVA63D-132	M.F.RESISTOR	1.3K	1/16W
	NRVA63D-681	M.F.RESISTOR	680	1/16W
	NRVA63D-392	M.F.RESISTOR	3.9K	1/16W
R752		M.F.RESISTOR	39K	1/16W
R752 R753	NRVA63D-393			111044
R752 R753 R754	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R752 R753 R754 R755				

Symbol No.	Part No.	Part Name		Description
R757	NRVA63D-272	M.F.RESISTOR	2.7K	1/10/4/
R758	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W
R759	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R762	NRVA63D-104	M.F.RESISTOR	100K	1/16W 1/16W
R763	NRVA63D-103	M.F.RESISTOR	100K	1/16W
R764	NRVA63D-221	M.F.RESISTOR	220	1/16W
R765	NRVA63D-561	M.F.RESISTOR	560	1/16W
R767	NRVA63D-333	M.F.RESISTOR	33K	1/16W
R768	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W
R769	NRVA63D-183	M.F.RESISTOR	18K	1/16W
R770	NRVA63D-823	M.F.RESISTOR	82K	1/16W
R771	NRVA63D-823	M.F.RESISTOR	82K	1/16W
R772	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R773	NRSA63J-ORO	M.G.RESISTOR	0	1/16W (E)
R774	NRSA63J-105	M.G.RESISTOR	1.0M	1/16W
R801	NRVA63D-393	M.F.RESISTOR	39K	1/16W (U)
2000	NRVA63D-273	M.F.RESISTOR	27K	1/16W (E)
R802	NRVA63D-472	M.F.RESISTOR	4.7K	1/16W
R803	NRVA63D-473	M.F.RESISTOR	47K	1/16W (U)
R804	NRVA63D-682	M.F.RESISTOR	6.8K	1/16W (U)
R805	NRVA63D-562	M.F.RESISTOR	5.6K	1/16W
R806 R807	NRVA63D-122	M.F.RESISTOR	1.2K	1/16W
R808	NRVA63D-822	M.F.RESISTOR	8.2K	1/16W
R809	NRVA63D-152 NRVA63D-561	M.F.RESISTOR	1.5K	1/16W
R810	NRVA63D-104	M.F.RESISTOR	560	1/16W
R811	NRVA63D-104	M.F.RESISTOR	100K	1/16W
R812	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
11012	NRVA63D-332	M.F.RESISTOR	2.7K	1/16W (U)
R813	NRVA63D-391	M.F.RESISTOR	3.3K	1/16W (E)
R814	NRVA63D-102	M.F.RESISTOR	390	1/16W
R815	NRVA63D-912	M.F.RESISTOR M.F.RESISTOR	1.0K 9.1K	1/16W 1/16W (U)
R816	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R817	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R818	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R819	NRVA63D-471	M.F.RESISTOR	470	1/16W
R820	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R821	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R822	NRVA63D-471	M.F.RESISTOR	470	1/16W
R823	NRVA63D-471	M.F.RESISTOR	470	1/16W
R824	NRVA63D-122	M.F.RESISTOR	1.2K	1/16W
R825	NRVA63D-183	M.F.RESISTOR	18K	1/16W
R827	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W
R828	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W
R829	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W
R830	NRVA63D-223	M.F.RESISTOR	22K	1/16W
R831	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R832	NRVA63D-124	M.F.RESISTOR	120K	1/16W
R833	NRVA63D-104	M.F.RESISTOR	100K	1/16W
R834	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W
R835	NRVA63D-392	M.F.RESISTOR	3.9K	1/16W
R836	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R837	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W
R838	NRVA63D-682	M.F.RESISTOR	6.8K	1/16W(U)
Desc	NRVA63D-822	M.F.RESISTOR	8.2K	1/16W(E)
R839	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W (U)
DOCC	NRVA63D-562	M.F.RESISTOR	5.6K	1/16W(E)
R840	NRVA63D-102	M.F.RESISTOR	1K	1/16W(U)
D044	NRVA63D-112	M.F.RESISTOR	1.1K	1/16W(E)
R841	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W

Symbol, No.	Part No.	Part Name	De	scription	Symbol No.	Part No.	Part Name	De	scription
R842	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W	R899	NRVA63D-332	M.F.RESISTOR	3.3K	1/16W(U)
R843	NRVA63D-104	M.F.RESISTOR	100K	1/16W		NRVA63D-152	M.F.RESISTOR	1.5K	1/16W(E)
R844	NRVA63D-472	M.F.RESISTOR	4.7K	1/16W				1.00	111044(1)
R845	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W	R900	NRVA63D-181	M.F.RESISTOR	180	1/16W
R846	NRVA63D-222	M.F.RESISTOR	2.2K	1/16W	R901	NRVA63D-181	M.F.RESISTOR	180	
			1	1110	R902		1	L .	1/16W
R847	NRVA63D-223	M.F.RESISTOR	22K	1/16W		NRVA63D-393	M.F.RESISTOR	39K	1/16W
R848	NRVA63D-102	M.F.RESISTOR	1.0K	1	R903	NRVA63D-820	M.F.RESISTOR	82	1/16W
R849	NRVA63D-224	M.F.RESISTOR	220K	1/16W	1			. 1	
R850	NRVA63D-224			1/16W					
	NRVA63D-192	M.F.RESISTOR	1.5K	1/16W	VR801	NVP1313-102	TRIM.RESISTOR	1K	C.LEVEL
R851		M.F.RESISTOR	3.9K	1/16W	1				
R852	NRVA63D-682	M.F.RESISTOR	6.8K	1/16W(U)					
	NRVA63D-472	M.F.RESISTOR	4.7K	1/16W(E)	C1	NEH90JM-107	E.CAPACITOR	100	6.3V
R853	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W(U)	C2	NEH90JM-107	E.CAPACITOR	100	6.3V
	NRVA63D-182	M.F.RESISTOR	1.8K	1/16W(E)	C3	NCB31CK-473	CER.CAPACITOR	0.047	16V
R854	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W	C4	NCB31CK-473	CER.CAPACITOR	0.047	16V
R855	NRVA63D-104	M.F.RESISTOR	100K	1/16W(E)	C5	NCB31CK-473	CER.CAPACITOR	0.047	16V
R856	NRVA63D-183	M.F.RESISTOR	18K	1/16W(E)	C6	NCB31CK-473	CER.CAPACITOR	0.047	16V
					C7	NCB31CK-473	CER.CAPACITOR	0.047	16V
R857	NRVA63D-102	M.F.RESISTOR	1K	1/16W(U)	C8	NCB31CK-473	CER.CAPACITOR	0.047	16V
	NRVA63D-112	M.F.RESISTOR	1.1K	1/16W(E)	C10	NCB31CK-473	CER.CAPACITOR	0.047	
R858	NRVA63D-273	M.F.RESISTOR	27K	1/16W(U)	C11	NCB31CK-473	CER.CAPACITOR		16V
	NRVA63D-122	M.F.RESISTOR	1.2K	1/16W(E)	011	NCDSTCK-475	CEN.CAPACITOR	0.047	16V
R859	NRVA63D-472	M.F.RESISTOR	4.7K	1/16W(L)	C12	NOTOCOLI 100	OFF CARACITOR	400	
R860	NRVA63D-472	M.F.RESISTOR	4.7K		C12	NCTO6CH-180	CER.CAPACITOR	18P	50V
R861	NRVA63D-122	M.F.RESISTOR		1/16W	C13	NCT06CH-101	CER.CAPACITOR	100P	50V
			1.2K	1/16W	C14	NCT06CH-2R0	CER.CAPACITOR	2.0P	50V
R862	NRVA63D-122	M.F.RESISTOR	1.2K	1/16W	C32	NCT06CH-271	CER.CAPACITOR	270P	50V
R863	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W	C401	NCB31CK-473	CER.CAPACITOR	0.047	16V
R864	NRVA63D-272	M.F.RESISTOR	2.7K	1/16W	C402	NCB31CK-473	CER.CAPACITOR	0.047	16V
R865	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W	C403	NCT06CH-331	CER.CAPACITOR	330P	50V
R866	NRVA63D-121	M.F.RESISTOR	120	1/16W	C501	NCB31CK-473	CER.CAPACITOR	0.047	16V
					C502	NCB31CK-473	CER.CAPACITOR	0.047	16V
R867	NRVA63D-152	M.F.RESISTOR	1.5K	1/16W	C503	NEE51EM-105	TAN.CAPACITOR	1.0	25V
R868	NRVA63D-473	M.F.RESISTOR	47K	1/16W					
R869	NRVA63D-473	M.F.RESISTOR	47K	1/16W	C504	NCB31CK-473	CER.CAPACITOR	0.047	16V
R870	NRSA63J-ORO	M.G.RESISTOR	0	1/16W	C505	NEE50GM-476	TAN.CAPACITOR	47	4V
R871	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W	C506	NEE51EM-105	TAN.CAPACITOR	1.0	25V
R872	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W	C507	NCB31CK-473	CER.CAPACITOR	0.047	16V
R873	NRSA63J-ORO	M.G.RESISTOR	0	1/16W	C508	NCB31CK-473	CER.CAPACITOR	0.047	16V
R874	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W	C509	NCB31CK-473	CER.CAPACITOR	0.047	
R875	NRVA63D-102	M.F.RESISTOR	1.0K	1/16W	C510	NCB31CK-473	CER.CAPACITOR		16V
R876	NRSA63J-0R0	M.G.RESISTOR	0	1/16W	C510	NCB31CK-473		0.047	16V
	1111071000 0110	W.G.MEOIOTON	1.0	171000	C511		CER.CAPACITOR	0.047	16V
R877	NRVA63D-102	M.F.RESISTOR	1.04	1/10/4/		NCB31CK-473	CER.CAPACITOR	0.047	16V
	NRVA63D-102		1.0K	1/16W	C513	NCT06CH-331	CER.CAPACITOR	330P	50V
R878		M.F.RESISTOR	1.0K	1/16W	0000				
R879	NRVA63D-273	M.F.RESISTOR	27K	1/16W(U)	C601	NCB31CK-473	CER.CAPACITOR	0.047	16V
Door	NRVA63D-122	M.F.RESISTOR	1.2K	1/16W(E)	C602	NCB31CK-473	CER.CAPACITOR	0.047	16V
R880	NRSA63J-ORO	M.G.RESISTOR	0	1/16W	C603	NCT06CH-331	CER.CAPACITOR	330P	50V
R881	NRVA63D-223	M.F.RESISTOR	22K	1/16W	C701	NEE50GM-476	TAN.CAPACITOR	47	4V
R882	NRVA63D-472	M.F.RESISTOR	4.7K	1/16W	C704	NCT06CH-102	CER.CAPACITOR	1000P	50V
R884	NRVA63D-100	M.F.RESISTOR	10	1/16W	C705	NCT06CH-390	CER.CAPACITOR	39P	50V
R885	NRSA63J-6R8	M.G.RESISTOR	6.8	1/16W	C706	NCT06CH-150	CER.CAPACITOR	15P	50V
R886	NRVA63D-100	M.F.RESISTOR	10	1/16W	C707	NCT06CH-390	CER.CAPACITOR	39P	50V
R887	NRVA63D-151	M.F.RESISTOR	150	1/16W	C708	NCT06CH-150	CER.CAPACITOR	15P	50V
				.,	C709	NEE51EM-105		1	
R888	NRVA63D-151	M.F.RESISTOR	150	1/16W	0,00	INCESTEIVI-105	TAN.CAPACITOR	1.0	25V
R889	NRVA63D-121	M.F.RESISTOR	120	1/16W	1				
R890	NRVA63D-331				0710	NODOLOU 470	OFD 04D: 0:707		
		M.F.RESISTOR	330	1/16W	C710	NCB31CK-473	CER.CAPACITOR	0.047	16V
R891	NRSA63J-6R8	M.G.RESISTOR	6.8	1/16W	C711	NCB31CK-473	CER.CAPACITOR	0.047	16V
R892	NRVA63D-100	M.F.RESISTOR	10	1/16W	C712	NEE50GM-476	TAN.CAPACITOR	47	4V
R893	NRSA63J-6R8	M.G.RESISTOR	6.8	1/16W	C713	NEE50GM-476	TAN.CAPACITOR	47	4V
R894	NRSA63J-ORO	M.G.RESISTOR	0	1/16W	C714	NCB31CK-473	CER.CAPACITOR	0.047	16V
R897	NRVA63D-151	M.F.RESISTOR	150	1/16W	C715	NCB31CK-473	CER.CAPACITOR	0.047	16V
R898	NRVA63D-181	M.F.RESISTOR	180	1/16W(U)	C716	NCT06CH-390	CER.CAPACITOR	39P	50V
	NRVA63D-221	M.F.RESISTOR	220	1/16W(E)	C801	NCB31CK-473	CER.CAPACITOR	0.047	

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ne	Description

Symbol No.	Part No.	Part Name	Descrip	otion
C802	NCB31CK-473	CER.CAPACITOR	0.047	16V
C805	NCB31CK-473	CER.CAPACITOR	0.047	16V
0000	11000101011470	OEII.OAI AOITOII	0.047	100
C806	NICESTON 473	CED CADACITOR	0.047	4014
	NCB31CK-473	CER.CAPACITOR	0.047	16V
C807	NCT06CH-150	CER.CAPACITOR	15P	50V
C808	NCT06CH-150	CER.CAPACITOR	15P	50V
C809	NCB31CK-473	CER.CAPACITOR	0.047	16V
C810	NCB31CK-473	CER.CAPACITOR	0.047	16V
C811	NCB31CK-473	CER.CAPACITOR	0.047	16V
C812	NCB31CK-473	CER.CAPACITOR	0.047	16V
C813	NCB31CK-473	CER.CAPACITOR		
			0.047	16V
C814	NCB31CK-473	CER.CAPACITOR	0.047	16V
C815	NCB31CK-473	CER.CAPACITOR	0.047	16V
C816	NCB31CK-473	CER.CAPACITOR	0.047	16V
C817	NCB31CK-473	CER.CAPACITOR		
			0.047	16V
C818	NCT06CH-150	CER.CAPACITOR	15P	50V
C819	NCT06CH-150	CER.CAPACITOR	15P	50V
C820	NCB31CK-473	CER.CAPACITOR	0.047	16V
C823	NCB31CK-473	CER.CAPACITOR	0.047	16V
C824	NCB31CK-473	CER.CAPACITOR	0.047	16V
C825	NCB31CK-473	CER.CAPACITOR	0.047	16V
C826	NCB31CK-473	CER.CAPACITOR		
			0.047	16V
C827	NCB31CK-473	CER.CAPACITOR	0.047	16V
C828	NCB31CK-473	CER.CAPACITOR	0.047	16V
C829	NCB31CK-473	CER.CAPACITOR	0.047	
C830				16V
	NCB31CK-473	CER.CAPACITOR	0.047	16V
C831	NCT06CH-101	CER.CAPACITOR	100P	50V
L1 L2 L501	SCV2662-027 SCV2662-027 SCV2662-027	FERRITE BEADS FERRITE BEADS FERRITE BEADS		
L502	SCV2662-027	FERRITE BEADS		
L701	SCV1950-470	PEAKING COIL	47μΗ	
LC801 LC802 LC803	SCV2597-S144Z SCV2597-S144Z SCV2597-S144Z	FILTER FILTER FILTER		
DI 404	000000000000000000000000000000000000000			
DL401	SCV2760-001Z	DELAY LINE	70(NSEC)	
DL501	SCV2760-001Z	DELAY LINE	70(NSEC)	
DL601	SCV2760-001Z	DELAY LINE	70(NSEC)	
DL701	SCV2528-001Z	DELAY LINE	150(NSEC)	(U
DL702	SCV2528-001Z	DELAY LINE	150(NSEC)	(E
DL801	SCV2528-001Z	DELAY LINE	150(NSEC)	, L
DL802	SCV2528-001Z	DELAY LINE	150(NSEC)	
DL802				
レレロひろ	SCV2637-001	B.P.F	3.58 MHz	(U
	SCV2638-001	B.P.F.	4.43 MHz	(E
CN5	CHB102W-24R	CONNECTOR	24PIN	
CN6	CHB102W-14R	CONNECTOR	14PIN	
CN26	SCV1770-004	CONNECTOR	4PIN	
TP405	SCV1880-001	TEST POINT	OUT B	
TP505	SCV1880-001	TEST POINT	OUT G	
TP604	SCV1880-001	TEST POINT	PR G	
TP604	SCV1880-001			
TP701		TEST POINT	OUT R	
- PR11 1	SCV1880-001	TEST POINT	DLAIED G	
TP702	SCV1880-001	TEST POINT	CONTOUR	

Symbol No.	Part No.	Part Name	Description	
IC901	MB89T715AHPF	I.C.(M)	FUJITSU	
IC902	LH5168N-10L	I.C.(M)	SHARP	
IC903	NM93C66M8X	I.C.(M)	NATIONAL SEMICO	
IC904	MC74HC139AF	I.C.(M)	MOTOROLA	
IC905	MC74HC373AF	I.C.(M)	MOTOROLA	
IC906	PLSC1148	I.C.(M)	MBM27C512P-15	
IC906	SCV2543-A28	IC SOCKET	MBM27C512F-15	
10000	50V2040 A20	IC SOCKET	·	
SK906A	SCV2543-C28	IC SOCKET		
IC907	TC74HC238AF	I.C.(M)	TOSHIBA	
IC908	TC74HC04AF	I.C.(M)	TOSHIBA	
IC909	TC7S08F	I.C.(M)	TOSHIBA	
IC910	S-8054HNCB	I.C.(M)	SEIKO	
IC911	MC74HC165F	I.C.(M)	MOTOROLA	
IC912	MB89012-109	I.C.(M)	FUJITSU	
Q901	.2SC4626(BC)	TRANSISTOR	MATSUSHITA	
0902	2SC4626(BC)	TRANSISTOR	MATSUSHITA	
0903	DTA124EU	TRANSISTOR	ROHM	
4000	51/112420	MANOIDION	, normy	
D901	MA142A	DIODE	MATSUSHITA	
R901	NRVA63D-473	M.F.RESISTOR	47K 1/16W	
R902	NRVA63D-473	M.F.RESISTOR	47K 1/16W 47K 1/16W	
R903	NRVA63D-103	M.F.RESISTOR		
R904	NRVA63D-103	M.F.RESISTOR	1	
R905	NRVA63D-472	M.F.RESISTOR		
R906	NRVA63D-682	M.F.RESISTOR		
R907	NRVA63D-101	M.F.RESISTOR		
R909	NRVA63D-101	M.F.RESISTOR		
R910	NRVA63D-332	M.F.RESISTOR		
R912	NRVA63D-473	M.F.RESISTOR	3.3K 1/16W 47K 1/16W	
R913	NRVA63D-473	M.F.RESISTOR	47K 1/16W	
R914	NRVA63D-473	M.F.RESISTOR	47K 1/16W	
R915	NRVA63D-221	M.F.RESISTOR	220 1/16W	
R917	NRVA63D-103	M.F.RESISTOR	10K 1/16W	
R918	NRVA63D-103	M.F.RESISTOR	10K 1/16W	
R921	NRVA63D-473	M.F.RESISTOR	47K 1/16W	
R922	NRVA63D-473	M.F.RESISTOR	47K 1/16W	
R923	NRVA63D-473	M.F.RESISTOR	47K 1/16W	
R924	NRVA63D-473	M.F.RESISTOR	47K 1/16W	
R925	NRVA63D-473	M.F.RESISTOR	47K 1/16W	
R926	NRVA63D-473	M.F.RESISTOR	47K 1/16W	
R927	NRVA63D-473	M.F.RESISTOR	47K 1/16W	
R928	NRVA63D-473	M.F.RESISTOR	47K 1/16W	
R929	NRVA63D-473	M.F.RESISTOR	47K 1/16W	
R930	NRVA63D-473	M.F.RESISTOR	47K 1/16W	
R931	NRVA63D-101	M.F.RESISTOR	100 1/16W	
R932	NRVA63D-101	M.F.RESISTOR	100 1/16W	
R933	NRVA63D-101	M.F.RESISTOR	100 1/16W	
R934	NRVA63D-101	M.F.RESISTOR	100 1/16W	
R935	NRVA63D-101	M.F.RESISTOR	100 1/16W	
R936	NRVA63D-101	M.F.RESISTOR	100 1/16W	
1	NRVA63D-101	M.F.RESISTOR	100 1/16W	
	NRVA63D-101	M.F.RESISTOR	100 1/16W	
R940	NRVA63D-101	M.F.RESISTOR	100 1/16W	

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Symbol No.	Part No.	Part Name	Descri	ption
R941	NRVA63D-101	M.F.RESISTOR	100	1/16W
R942	NRVA63D-101	M.F.RESISTOR	100	1/16W
R943	NRVA63D-101	M.F.RESISTOR	100	
R944	NRVA63D-101			1/16W
		M.F.RESISTOR	100	1/16W
R945	NRVA63D-101	M.F.RESISTOR	100	1/16W
R946	NRVA63D-101	M.F.RESISTOR	100	1/16W
R947	NRVA63D-101	M.F.RESISTOR	100	1/16W
R948	NRVA63D-101	M.F.RESISTOR	100	1/16W
R949	NRVA63D-101	M.F.RESISTOR	100	1/16W
R950	NRVA63D-101	M.F.RESISTOR	100	1/16W
R951	NRVA63D-101	M.F.RESISTOR	100	1/16W
R952	NRVA63D-101	M.F.RESISTOR	100	1/16W
R960	NRVA63D-473	M.F.RESISTOR	47K	1/16W
VR901	NVP1415-103	TRIM.RESISTOR		
C901	QEZ0171-224	E.CAPACITOR	0.22	
C902	NCT06CH-151	CER.CAPACITOR	150P	50V
C903	NCT06CH-181	CER.CAPACITOR	180P	50V
C906	NCB31CK-473	CER.CAPACITOR	0.047	16V
C907	NCB31CK-473	CER.CAPACITOR	0.047	16V
C911				
	NEE51AM-476	TAN.CAPACITOR	47	10V
C912	NEE51AM-476	TAN.CAPACITOR	47	10V
C913	NFV41HJ-104	F.CAPACITOR	0.10	50V
C914	NEF11AM-225	TAN.CAPACITOR	2.2	10V
C915	NFV41HJ-104	F.CAPACITOR	0.10	50V
C916	NEE51AM-476	TAN.CAPACITOR	47	10V
C917	NCB31CK-473	CER.CAPACITOR	0.047	16V
C918	NCB31CK-473	CER.CAPACITOR	0.047	16V
C919	NCB31CK-473	CER.CAPACITOR		
			0.047	16V
C920	NCB31CK-473	CER.CAPACITOR	0.047	16V
C921	NCB31CK-473	CER.CAPACITOR	0.047	16V
C922	NCB31CK-473	CER.CAPACITOR	0.047	16V
C923	NFV41HJ-104	F.CAPACITOR	0.10	50V
C924	NCB31CK-473	CER.CAPACITOR	0.047	16V
C925	NCB31CK-473	CER.CAPACITOR	0.047	16V
C926	NCB31CK-473	CER.CAPACITOR	0.047	16V
C927	NCB31CK-473	CER.CAPACITOR	0.047	16V
L901	SCV1950-4R7	PEAKING COIL	4.7μH	
X901	SCV2614-001	CRYSTAL	11.059 MHz	
0004				
S901	SCV2247-004	SWITCH	45.15	
S902	SCV2588-106	ROTARY SWITCH	ADJ.SW	
S903	SCV2162-001	SWITCH	ADJ.SET	
CN7	CHB102W-24R	CONNECTOR	24DIN	
CN8	CHB102W-24R CHB102W-14R	CONNECTOR	24PIN 14PIN	
TP901	SCV1880-001	TEST POINT		
TP902	SCV1880-001	TEST POINT		
TP903	SCV1880-001	TEST POINT		
TDOOA	SCV1880-001	TEST POINT		
TP904				

Symbol No.	Part No.	Part Name	Description
IC1	NJM062M	I.C.(M)	JRC
IC921	MB89012-109	I.C.(M)	FUJITSU
IC922	LMC6082IM	I.C.(M)	NATIONAL SEMICO
IC923	LMC6082IM	I.C.(M)	NATIONAL SEMICO
IC924	MC74HC4052F	I.C.(M)	MOTOROLA
IC925	NJM062M	I.C.(M)	JRC
IC926	TC4W53F	I.C.(M)	TOSHIBA
IC927	MC74HC02AF	I.C.(M)	MOTOROLA
IC928	NJM062M	I.C.(M)	JRC
IC929	NJM062M	I.C.(M)	JRC
IC930	NJM062M	I.C.(M)	JRC
IC931	TC4S66F	I.C.(M)	TOSHIBA
IC932	NJM062M	1.C.(M)	JRC
IC933	NJM062M	I.C.(M)	JRC
IC934	NJM062M	I.C.(M)	JRC
IC935	MB88353PFV-ER	I.C.(M)	FUJITSU
IC936	NJM062M	I.C.(M)	JRC
IC937	NJM062M	I.C.(M)	JRC
IC938	TC4066BF	I.C.(M)	TOSHIBA
IC939	TC7S04F	I.C.(M)	TOSHIBA
IC940	TC4S66F	I.C.(M)	TOSHIBA
IC941	TC4S66F	I.C.(M)	TOSHIBA
IC943	TC4S66F	I.C.(M)	TOSHIBA
D011	144740	51055	
D911	MA742	DIODE	MATSUSHITA
D912 D913	MA742	DIODE	MATSUSHITA
D913	MA742	DIODE	MATSUSHITA
D914 D915	MA742 MA742	DIODE	MATSUSHITA
D916	MA742	DIODE	MATSUSHITA MATSUSHITA
D917	MA143A	DIODE	MATSUSHITA
R2	NRVA63D-184	M.F.RESISTOR	180K 1/16W
R3	NRVA63D-104	M.F.RESISTOR	100K 1/16W
R4	NRVA63D-473	M.F.RESISTOR	47K 1/16W
R5	NRVA63D-473	M.F.RESISTOR	47K 1/16W
R6	NRVA63D-123	M.F.RESISTOR	12K 1/16W
R7	NRVA63D-123	M.F.RESISTOR	12K 1/16W
R351	NRVA63D-562	M.F.RESISTOR	5.6K 1/16W
R352	NRVA63D-473	M.F.RESISTOR	47K 1/16W
R353	NRVA63D-183	M.F.RESISTOR	18K 1/16W
R354	NRVA63D-183	M.F.RESISTOR	18K 1/16W
R355	NRVA63D-183	M.F.RESISTOR	18K 1/16W
R356	NRVA63D-183	M.F.RESISTOR	18K 1/16W
R357	NRVA63D-183	M.F.RESISTOR	18K 1/16W
R358	NRVA63D-123	M.F.RESISTOR	12K 1/16W
R359	NRVA63D-363	M.F.RESISTOR	36K 1/16W
R360	NRVA63D-473	M.F.RESISTOR	47K 1/16W
R953	NRVA63D-103	M.F.RESISTOR	10K 1/16W
R954	NRVA63D-332	M.F.RESISTOR	3.3K 1/16W
R956 R957	NRSA63J-ORO NRVA63D-103	M.G.RESISTOR M.F.RESISTOR	0 1/16W 10K 1/16W
DOEO	NDVA62D 202		
R958 R959	NRVA63D-332 NRVA63D-683	M.F.RESISTOR M.F.RESISTOR	3.3K 1/16W
R960	NRVA63D-663 NRVA63D-101	M.F.RESISTOR	68K 1/16W 100 1/16W
R961	NRVA63D-101 NRVA63D-682	M.F.RESISTOR	.,
R962	NRVA63D-223	M.F.RESISTOR	6.8K 1/16W 22K 1/16W
R963	NRVA63D-123	M.F.RESISTOR	12K 1/16W
R964	NRVA63D-273	M.F.RESISTOR	27K 1/16W

Symbol No.	Part No.	Part Name	Des	scription	Symbol No.	Part No.	Part Name	Description
R965	NRVA63D-101	M.F.RESISTOR	100	1/16W	C967	NCB31CK-473	CED CADACITOR	0.047 104
R971							CER.CAPACITOR	0.047 16V
	NRVA63D-393	M.F.RESISTOR	39K	1/16W	C968	NCB31CK-473	CER.CAPACITOR	0.047 16V
R972	NRVA63D-333	M.F.RESISTOR	33K	1/16W	C969	NEE51AM-226	TAN.CAPACITOR	22 10V
					C970	NCT06CH-181	CER.CAPACITOR	180P 50V
R973	NRVA63D-393	M.F.RESISTOR	39K	- 1/16W	C971	NCB31CK-473	CER.CAPACITOR	0.047 16V
R974	NRVA63D-333	M.F.RESISTOR	33K	1/16W	C973	NCB31CK-473	CER.CAPACITOR	0.047 16V
R975	NRVA63D-393	M.F.RESISTOR	39K	1/16W	C974	NCB31CK-473	CER.CAPACITOR	0.047 16V
R976	NRVA63D-333	M.F.RESISTOR	33K	1/16W	C975	NCB31CK-473	CER.CAPACITOR	0.047 16V
R977	NRVA63D-223	M.F.RESISTOR	22K	1/16W	C976	NCB31CK-473	CER.CAPACITOR	0.047 16V
R979	NRVA63D-103	M.F.RESISTOR	10K	1/16W	1 00.0	110001010 470	GEN. GAI AGITON	10.047
R980	1	M.F.RESISTOR			1	}		
	NRVA63D-104		100K	1/16W				
R981	NRVA63D-123	M.F.RESISTOR	12K	1/16W	L902	SCV1950-4R7	PEAKING COIL	4.7μΗ
R982	NRVA63D-223	M.F.RESISTOR	22K	1/16W	1			
R983	NRVA63D-124	M.F.RESISTOR	120K	1/16W	1			1
1	}		1		CN9	CHB102W-24R	CONNECTOR	24PIN
R984	NRVA63D-101	M.F.RESISTOR	100	1/16W	CN10	CHB102W-14R	CONNECTOR	14PIN
R985	NRVA63D-103	M.F.RESISTOR	10K	1/16W				1
R986	NRVA63D-123	M.F.RESISTOR	12K	1/16W	1			
R987	NRVA63D-103				TD011	00111000 001	TEOT BOILE	
		M.F.RESISTOR	10K	1/16W	TP911	SCV1880-001	TEST POINT	1
R988	NRVA63D-103	M.F.RESISTOR	10K	1/16W	TP912	SCV1880-001	TEST POINT	
R989	NRVA63D-101	M.F.RESISTOR	100	1/16W	TP913	SCV1880-001	TEST POINT	
R994	NRVA63D-223	M.F.RESISTOR	22K	1/16W	TP914	SCV1880-001	TEST POINT	
R995	NRVA63D-223	M.F.RESISTOR	22K	1/16W				
R996	NRVA63D-123	M.F.RESISTOR	12K	1/16W	1	•	ì	
R997	NRVA63D-823	M.F.RESISTOR	82K	1/16W	}		ì	
								,
VR1	NVP1314-104	TRIM.RESISTOR	100K					
VR2	NVP1314-104	TRIM.RESISTOR	100K	1		1	1	
}				1	1	1		
ì			1	1	1			
C931	NCT06CH-151	CER.CAPACITOR	150P	50V	-{	la .		
1			1					
C932	NCT06CH-181	CER.CAPACITOR	180P	50V				1
C933	NCB31CK-473	CER.CAPACITOR	0.047	16V				1
C934	NFV41CJ-473	F.CAPACITOR	0.047	16V	1	1		1
C935	NCB31CK-473	CER.CAPACITOR	0.047	16V	1	1	1]
C936	NFV41CJ-473	F.CAPACITOR	0.047	16V		}		}
C941	NEE51AM-476	TAN.CAPACITOR	47	10V	1	1		
C942	NEE51AM-476	TAN.CAPACITOR	47	10V	1			ŀ
C943	NEE51CM-156	TAN.CAPACITOR	15	16V	1			1
C944			1	1	1			
C944	NEE51CM-156	TAN.CAPACITOR	15	16V				
C945	NCB31CK-473	CER.CAPACITOR	0.047	16V	1			
C946	NCB31CK-473	CER.CAPACITOR	0.047	16V	1	1		
C947	NCB31CK-473	CER.CAPACITOR	0.047	16V	1			1
C948	NCB31CK-473	CER.CAPACITOR	0.047	16V	}			
C949	NCB31CK-473	CER.CAPACITOR	0.047	1	1	1	1	1
			1	16V	1	1	1	1
C950	NCB31CK-473	CER.CAPACITOR	0.047	16V	-{	1		1
C951	NCB31CK-473	CER.CAPACITOR	0.047	16V	1	1	1	1
C952	NCB31CK-473	CER.CAPACITOR	0.047	16V	į			}
C953	NCB31CK-473	CER.CAPACITOR	0.047	16V	1			1
C954	NCB31CK-473	CER.CAPACITOR	0.047	16V				
C955	NCB31CK-473	CER.CAPACITOR	0.047	16V			9	
C956	NCB31CK-473	CER.CAPACITOR	0.047	16V	1	'		1
C957	NCB31CK-473	CER.CAPACITOR	0.047	16V	1	1		
				1		{		
C958	NCB31CK-473	CER.CAPACITOR	0.047	16V		(
C959	NCB31CK-473	CER.CAPACITOR	0.047	16V				
C960	NCB31CK-473	CER.CAPACITOR	0.047	16V		[l.
C961	NCB31CK-473	CER.CAPACITOR	0.047	16V	1			
C963	NCB31CK-473	CER.CAPACITOR	0.047	16V	1)		1
C964	NCB31CK-473	CER.CAPACITOR	0.047	16V	1	}		1
C965	NCB31CK-473	CER.CAPACITOR	0.047	16V		}		1
					1			
C966	NCB31CK-473	CER.CAPACITOR	0.047	16V				

5.9 IF BOARD ASSEMBLY LIST 09 SCK2449-02-00A

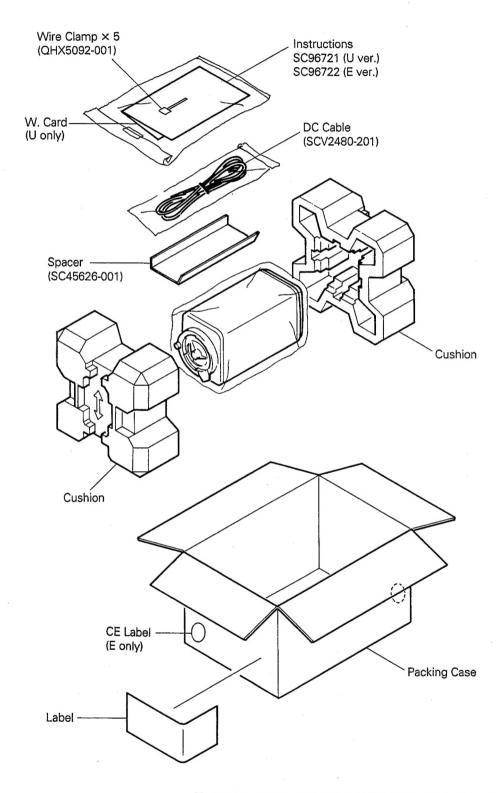
0 9		\Box	\Box	\Box	\Box
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Symbol					
No.	Part No.	Part Name	Description		
IC311	MC74HC165F	I.C.(M)	MOTOROLA		
]					
D301	MA143A	DIODE	MATSUSHITA		
D302	MA143A	DIODE	MATSUSHITA		
D303	MA143A .	DIODE	MATSUSHITA		
D304	MA143A	DIODE	MATSUSHITA		
D305	MA143A	DIODE	MATSUSHITA		
D309	MA143A	DIODE	MATSUSHITA		
D310	MA143A	DIODE	MATSUSHITA		
D311	MA143A	DIODE	MATSUSHITA		
D312	MA143A	DIODE	MATSUSHITA		
D313	MA143A	DIODE	MATSUSHITA		
D314	MA143A	DIODE	MATSUSHITA		
D315	MA143A	DIODE	MATSUSHITA		
D316	MA143A	DIODE	MATSUSHITA		
D317	MA143A	DIODE	MATSUSHITA		
D318	MA143A	DIODE	MATSUSHITA		
LD301	GLSECAA	1.50	CUADO		
LD301	GL3EG44 GL3HS44	L.E.D.	SHARP SHARP		
1 10302	GLOTIGHT	L.E.D.	SHARP		
R311	NRVA63D-471	M.F.RESISTOR	470 1/16W		
R313	NRVA63D-473	M.F.RESISTOR	47K 1/16W		
R314	NRVA63D-473	M.F.RESISTOR	47K 1/16W		
R315	NRVA63D-473	M.F.RESISTOR	47K 1/16W		
R316	NRVA63D-473	M.F.RESISTOR	47K 1/16W		
R318	NRVA63D-473	M.F.RESISTOR	47K 1/16W		
R319	NRVA63D-473 NRVA63D-473	M.F.RESISTOR	47K 1/16W		
R320	NRVA63D-473	M.F.RESISTOR M.F.RESISTOR	47K 1/16W		
R321	NRSA63J-680	M.G.RESISTOR	47K 1/16W 68 1/16W		
İ					
R322	NRSA63J-680	M.G.RESISTOR	68 1/16W		
R323	NRSA63J-680	M.G.RESISTOR	68 1/16W		
R324	NRVA63D-121	M.F.RESISTOR	120 1/16W		
R325	NRVA63D-750	M.F.RESISTOR	75 1/16W		
R329	NRVA63D-471	M.F.RESISTOR	470 1/16W		
R330	NRVA63D-471	M.F.RESISTOR	470 1/16W		
R331 R332	NRVA63D-471 NRVA63D-471	M.F.RESISTOR	470 1/16W		
R333	NRVA63D-471	M.F.RESISTOR	470 1/16W		
R334	NRVA63D-681	M.F.RESISTOR M.F.RESISTOR	680 1/16W 680 1/16W		
1,004		W.I . NEOIO I UN	680 1/16W		
R335	NRVA63D-151	M.F.RESISTOR	150 1/16W	J	
R336	NRVA63D-750	M.F.RESISTOR	75 1/16W		
R338	NRVA63D-471	M.F.RESISTOR	470 1/16W		
R339	NRVA63D-471	M.F.RESISTOR	470 1/16W		
R340	NRVA63D-471	M.F.RESISTOR	470 1/16W		
R341	NRVA63D-471	M.F.RESISTOR	470 1/16W	-	
R342	NRVA63D-471	M.F.RESISTOR	470 1/16W		
R343 R344	NRVA63D-151 NRVA63D-222	M.F.RESISTOR	150 1/16W	ı	
R344	NRVA63D-222 NRVA63D-222	M.F.RESISTOR M.F.RESISTOR	2.2K 1/16W 2.2K 1/16W		
			1/1000		
R346	NRVA63D-151	M.F.RESISTOR	150 1/16W		
C321	NCB21EK-473	CER.CAPACITOR	0.047 25V		
C322	NCB21EK-473	CER.CAPACITOR	0.047 25V		
C323	NCB21EK-473	CER.CAPACITOR	0.047 25V		
C324	NEF11AM-156	TAN.CAPACITOR	15 10V	-	
				1	

Symbol No.	Part No.	Part Name	Description
L301 L302 L303 L304 L305 L306 L307 L308	SCV2662-027 SCV2662-027 SCV2662-027 SCV2662-027 SCV2662-027 SCV2662-027 SCV2662-060 SCV2662-060	FERRITE BEADS FERRITE BEADS FERRITE BEADS FERRITE BEADS FERRITE BEADS FERRITE BEADS FERRITE BEADS FERRITE BEADS	
LC311 LC312	EXC-CET471U EXC-CET471U	EMI FILTER EMI FILTER	
\$301 \$302 \$303 \$304 \$305 \$306 \$307	SCV2679-001 SCV2679-001 SCV2679-001 SCV2679-001 SCV2679-001 SCV2680-001 SCV2169-001	TACT SWITCH TACT SWITCH TACT SWITCH TACT SWITCH TACT SWITCH TACT SWITCH SLIDE SWITCH	MENU ITEM(-) ITEM(+) DATA(-) DATA(+) RESET
CN11 CN12	SSV2614-20 SSV2614-20	FFC CONNECTOR FFC CONNECTOR	20PIN 20PIN
			·

Symbol Na.	Part No.	Part Name	Description
IC301 IC302	TA7809F NJM78L09UA	I.C.(M) I.C.(M)	TOSHIBA JRC
Q301 Q302 Q303 Q304	2SJ133-Z 2SJ133-Z 2SJ133-Z 2SJ133-Z	F.E.T. F.E.T. F.E.T.	NEC NEC NEC NEC
R301 R302 R303	NRSA63J-100 NRSA63J-100 NRSA63J-100	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	10 1/16W 10 1/16W 10 1/16W
C301 C302 C303 C304 C305 C306 C307 C308 C309 C310	NEA11EM-336 NEA11EM-336 NEA11EM-336 NEF11VM-105 NEF11CM-335 NEF11CM-335 NEF11AM-475 NEF11AM-475 NEF11VM-105 NEF11VM-105	E.CAPACITOR E.CAPACITOR E.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR	33 25V 33 25V 33 25V 1.0 35V 3.3 16V 4.7 10V 4.7 10V 1.0 35V 1.0 35V
C311	NEZ0003-336	E.CAPACITOR	33 10V
LC301 LC302 LC303 LC304 LC305	SCV1804-222 SCV1804-222 SCV1804-222 SCV1804-222 SCV1804-222	EMI FILTER EMI FILTER EMI FILTER EMI FILTER EMI FILTER	
CN1 CN2 CN3 CN4 CN5 CN6 CN7 CN8 CN9	SSV2614-24 SSV2614-24 CHB102W-24P CHB102W-14P CHB102W-14P CHB102W-14P CHB102W-24P CHB102W-14P CHB102W-14P CHB102W-24P CHB102W-14P	CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR	24PIN 24PIN 24PIN 14PIN 24PIN 14PIN 24PIN 14PIN 24PIN 14PIN
CN11 CN12	SSV1983-020 SSV1983-020	CONNECTOR CONNECTOR	20PIN 20PIN
TP1	SCV1880-001	TEST POINT	

SECTION 6 REPACKING



Note: Accessories above are subject to change without notice.